TOSHIBA

FILE NO. 010-200314

SERVICE MANUAL

Plasma Color Television

42HP83

DOCUMENT CREATED IN JAPAN, Nov., 2003

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⚠ SERVICE SAFETY PRECAUTIONS

- The caution items shown here describe major safety issues and should always be observed.
- The meanings of the various indications are as follows.

⚠ **WARNING**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users due to a product defect after the service operation is completed, could possibly be in danger of injury or even death in the event of operational error.
⚠ **CAUTION**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users after the service operation is completed, could possibly be in danger of injury, or where there could be physical damage in the event of operational error.

* Physical damage means major damage to a home, furnishings and other possessions.

Examples of marks

SHOCK HAZARD	The △ indicates caution (including danger and warning). The actual meaning of this caution is indicated inside the △ or nearby illustrations or text. The example shown to the left indicates the danger of "electrical shock".
PROHIBIT DISASSEMBLING	The ⃠ indicates a forbidden action. The actual meaning of this caution is indicated inside the ⃠ or nearby illustrations or text. The example shown to the left indicates that disassembly is forbidden.
UNPULUG	The ● indicates a forced action (an action that must be performed). The actual meaning of this forced action is indicated by ● or nearby illustrations or text. The example shown to the left indicates that the power plug must be disconnected.

	⚠ WARNING
KEEP CHILDREN AWAY	• Always advise users to keep children away. There is danger of injury to children from tools, disassembled products, etc.
UNPULUG	• Always disconnect the power plug before starting work whenever power is not required. Failure to disconnect the power plug before starting work can result in electrical shock.
SHOCK HAZARD	• Depending on the model, use an insulation transformer or wear gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
USE SPECIFIED PARTS	• Always use the replacement parts specified for the particular model when making repairs. The parts used in products have the necessary safety characteristics such as inflammability, voltage resistance, etc.; therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is included in a circuit diagram or parts list.
CAUTION FOR WIRING	• Parts mounting and routing of the wiring should be the same as that used originally. For safety purposes, insulating materials such as tubing or tape is sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wiring is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the original scheme.
CAUTION FOR ASSEMBLING / WIRING	• After a repair has been completed, reassemble all disassembled parts, and route and reconnect the wiring, in accordance with the original scheme. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
CHECK INSULATION RESISTANCE	• After completing the work, disconnect the power plug from the outlet, remove the antenna, turn on the power switch. Then, use a 500V insulation resistance meter to check the insulation resistance of the antenna terminal, other metallic parts and between the prongs of the power plug to make sure that the insulation resistance is 1M Ω or more. The set will require inspection and repair if the insulation resistance is below this value.
PROHIBIT REMODELING	• Never remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous

IMPORTANT INFORMATION

About Permanent after-image

After-image appear

• Due to the characteristics of a plasma screen, if the same image is displayed for an extended period of time, permanent after-image (image retention) in part of the screen may result. As a result of accumulative effect, brightness deterioration results.
To prevent permanent after-image, it is recommended not to display the same image for an extended period of time, or in 4:3 mode. If retention occurs, display a moving picture like a video movie. This may help to reduce minor permanent after-image. But it cannot be removed entirely once it has occurred. If the same static picture is displayed frequently, it is recommended to decrease "Brightness," or to adjust the Long life setting.

Note on operations in 4:3 mode

• In 4:3 mode, because of the sharp contrast between the displayed image area and non-displayed image area (frame), permanent after-image is likely to result.
Therefore, we recommend adjusting the TV settings as follows:
1. Reduce "Contrast" and "Brightness" of the picture. The more you reduce, the more effect is effective.
2. Adjust the brightness of the side panels. The more you turn the brightness high, the more effect is effective.
However, after adjusting the above settings, permanent after-image may not be removed entirely; only the onset of after-image is delayed. Display your TV in Super Live or Wide mode as much as possible.

Some parts of the screen do not light up

• The plasma display panel is manufactured using an extremely high level of precision technology, however sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

About infrared rays

• The plasma screen of this unit emits infrared rays in normal operation, and may influence some infrared-operated equipment by a use state although the measures of infrared ray (filter, etc.) are taken. Locate such equipment carefully to prevent rays from the plasma screen causing any problems.

About Interference

• Plasma display may cause interference in image, sound, etc. of other electronic equipment that is easy to receive electromagnetic waves (i.e. AM radios and video equipment) under certain installed condition. In particular, it may affect electronic equipment beyond the residential unit where a plasma display TV is used.

About Static electricity

• If you touch the surface of the screen panel, you may feel a slight electric shock. This is harmless.

About using under the low temperature places

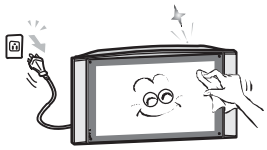
• If you use the TV in the room of 0°C or less, the picture brightness may vary until the plasma monitor warms up. This is not a sign of a malfunction.

About disposal

• Dispose the TV depending on the related local rules or laws.

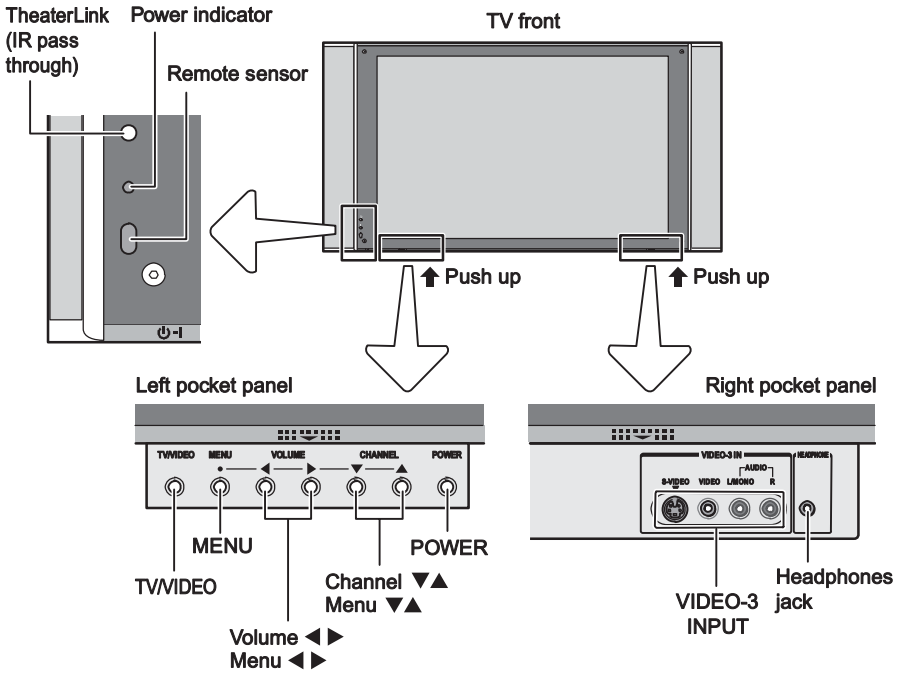
CLEANING

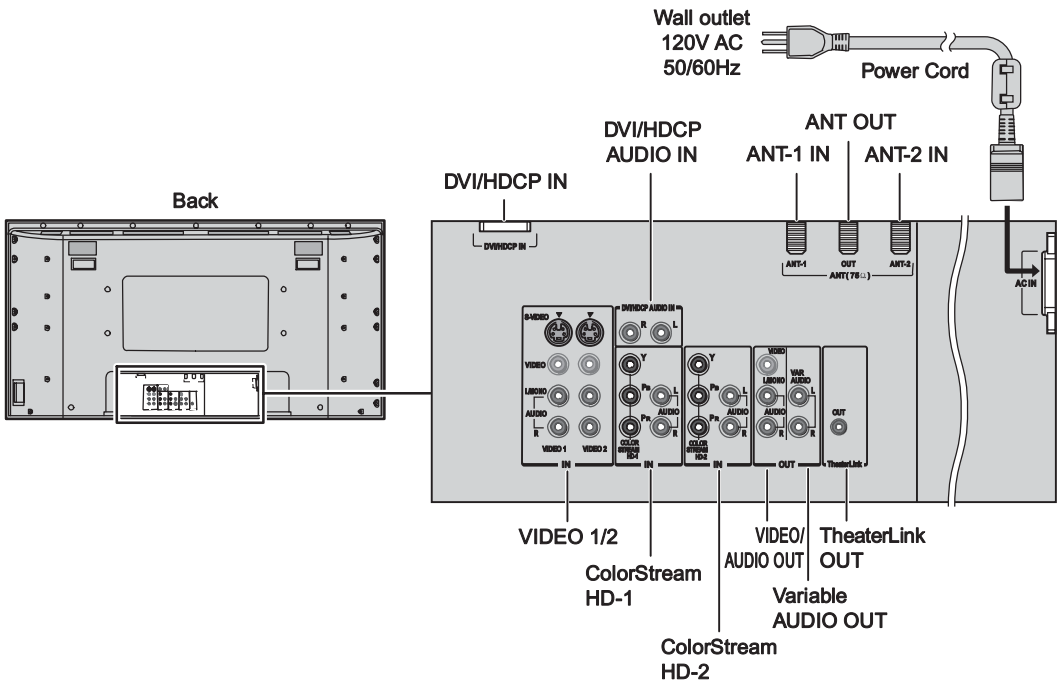
Remove the power plug before cleaning.
Do not use solvents such as benzine or thinner to clean the TV.
– These solvents may distort the cabinet or damage its finish.
– If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.
When the cabinet becomes dirty, clean it with a soft, dry cloth.
When the cabinet is very dirty.
– Use a damp cloth to wipe the cabinet clean.
– Finish with a dry cloth.
When cleaning the surface of the plasma display:
– Wipe the panel surface gently with a supplied soft, dry cloth.



When dust has collected on the power plug connectors, remove the plug from the outlet and clean off the dust.
This dust may cause a fire due to reduced insulation on the plug.

LOCATION OF CONTROLS





Remote Control

POWER turns the TV on and off.

SLEEP allows access to the automatic TV shut-off function .

LIGHT The first press of the LIGHT button lights the keypad and turns on the Illumination mode. With the Illumination mode on, pressing any other key lights the keypad for 5 seconds (10 seconds if you're in programming mode).
Subsequent presses of the LIGHT button toggle between turning the Illumination mode on and off.

Channel Numbers (0-9, 100) allow direct access to channels.

MODE cycles through the six device modes: TV, CABLE/SAT, VCR, DVD, AUDIO1, and AUDIO2. The mode indicator light will remain lit for a few seconds.

PIC SIZE cycles through the five pictures sizes: Natural, Theater Wide 1, 2, 3, and Full.

FAVORITE allows access to the favorite channel search function
.
MENU allows access to on-screen programming menus.

ENTER sets programming menu information.

▲▼ ◄ ► select or adjust programming menus.

FAV ▲▼ cycles through favorite channels.

CH ▲▼ cycles through programmed channels.

VOL ▲▼ adjusts the volume level.

EXIT exits the programming menus.

INPUT selects the video input source.

MUTE mutes the sound.

RECALL displays on-screen information.

CH RTN returns to the last viewed channels.

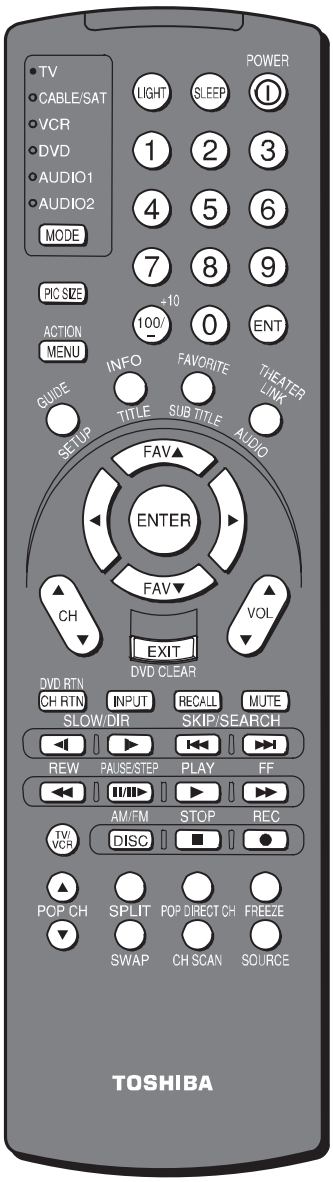
POP CH ▲▼ selects the POP (picture-out-picture) channel.

SPLIT turns the POP feature on and off.

CH SCAN allows access to the programmed channel search function
.
FREEZE freezes the POP picture.

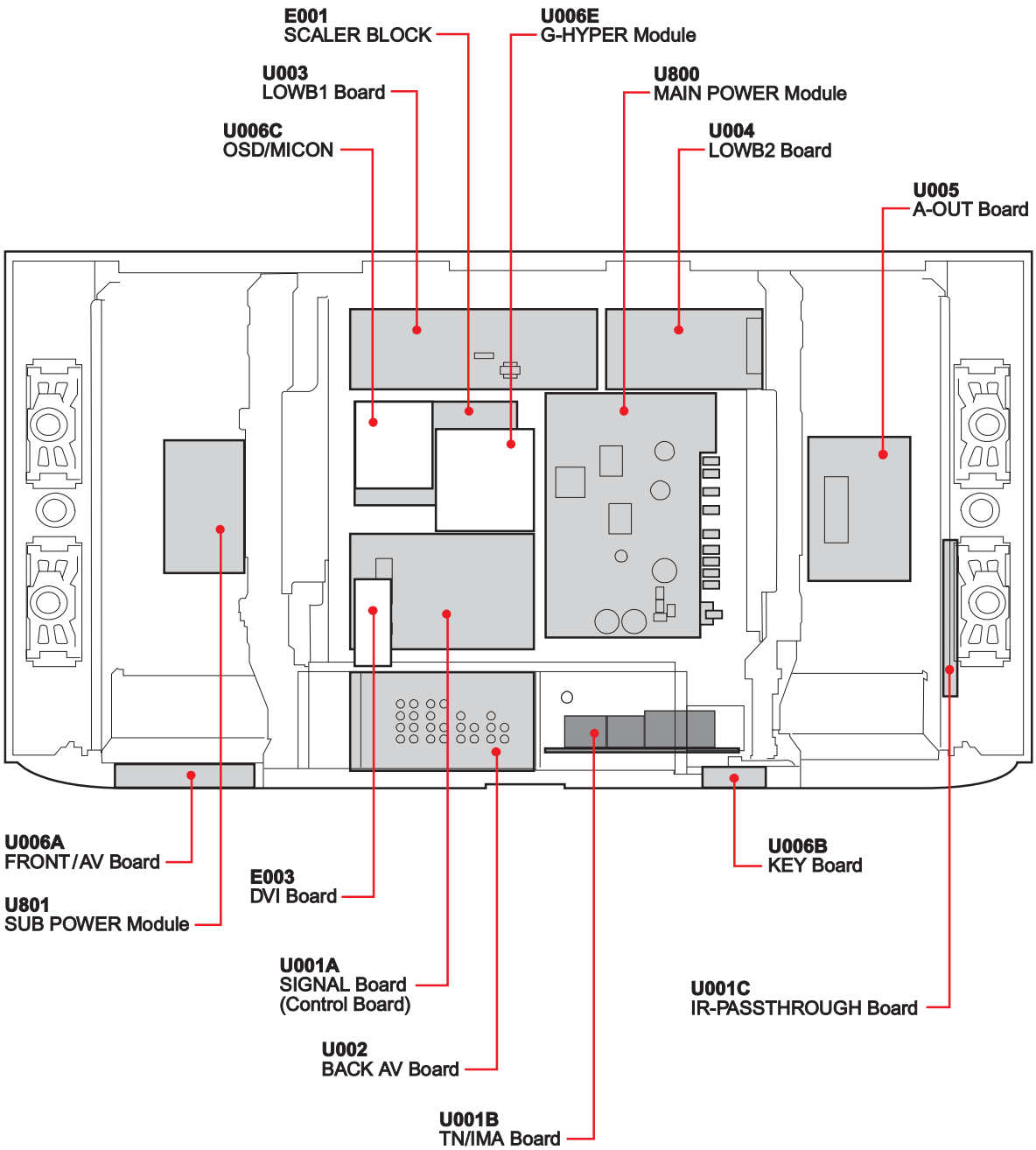
SWAP switches the main and POP pictures.

POP DIRECT CH allows direct access to POP channels
.
SOURCE selects the POP picture source.



Note:
The error message "Not Available" will appear if you press a key for a function that is not available.

LAYOUT OF MAJOR BOARDS

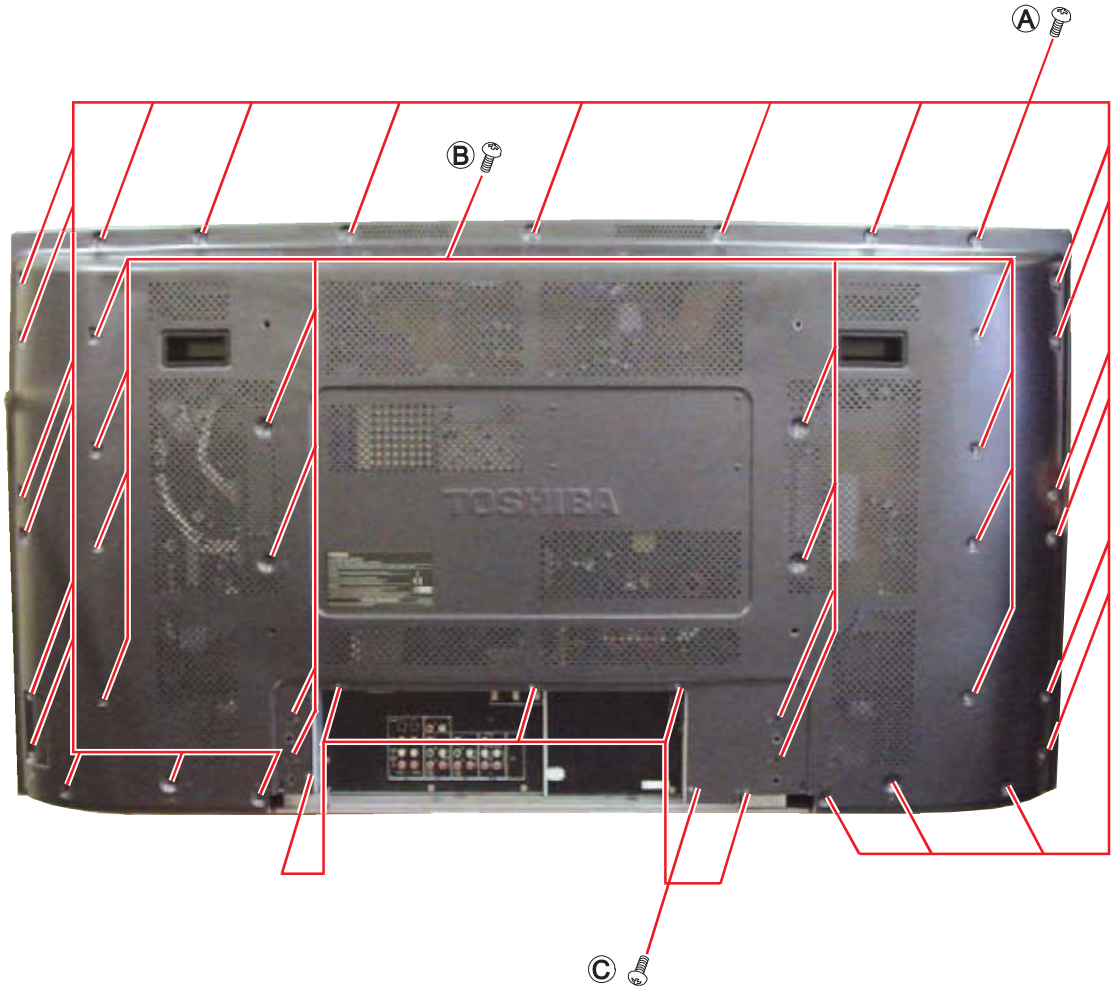


MECHANICAL DISASSEMBLY

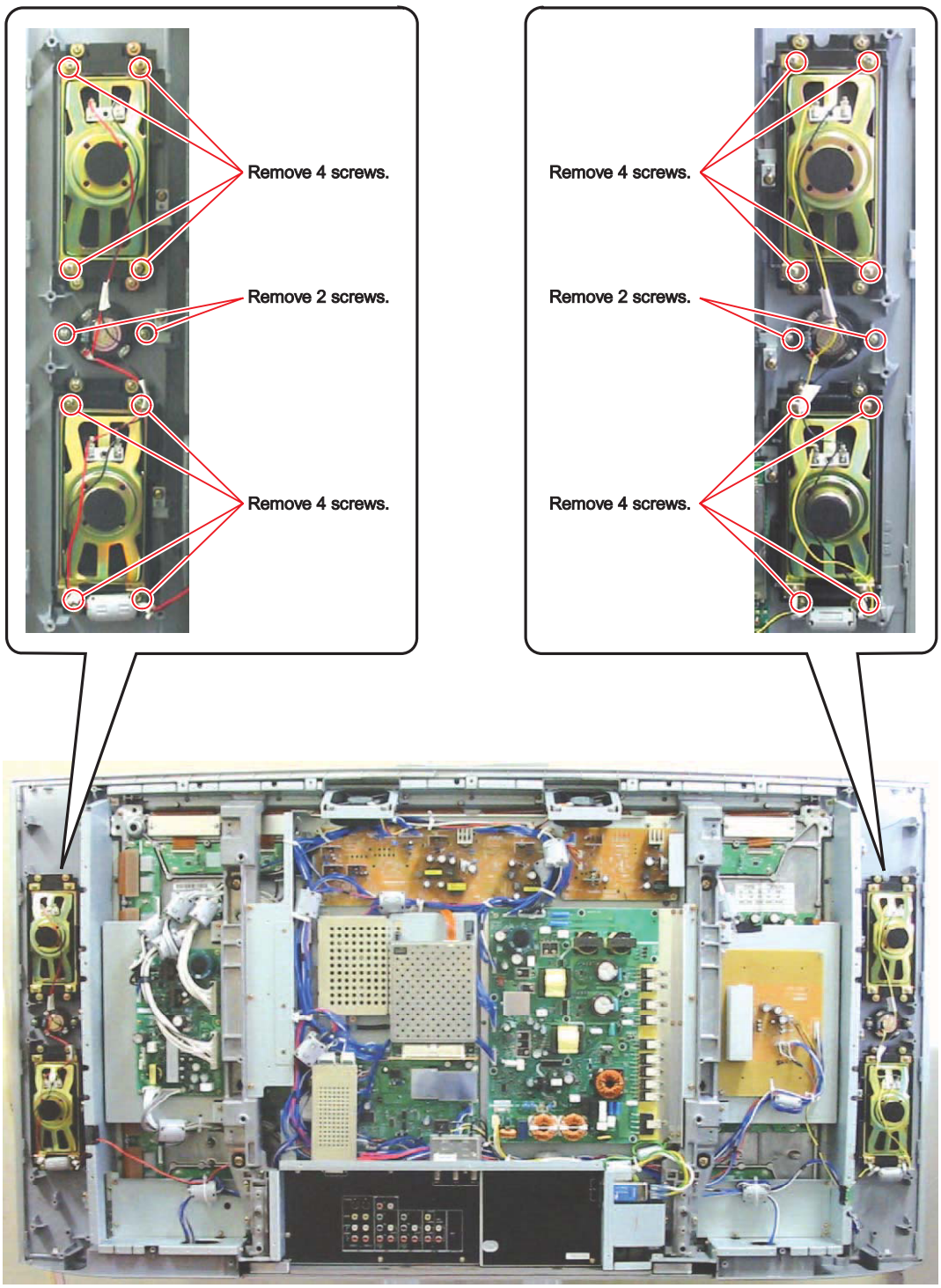
■ Removing the rear cover

✲ **Note: Be sure to lay down the main body (by placing its screen downward) for disassembling.**

- Remove 25 screws (Ⓐ).
- Remove 16 screws (Ⓑ).
- Remove 6 screws (Ⓒ).

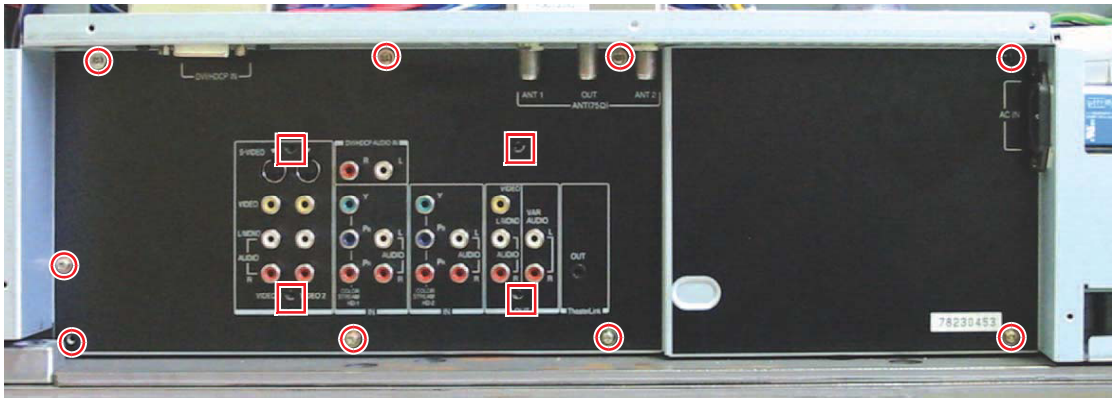


■ Removing the speakers



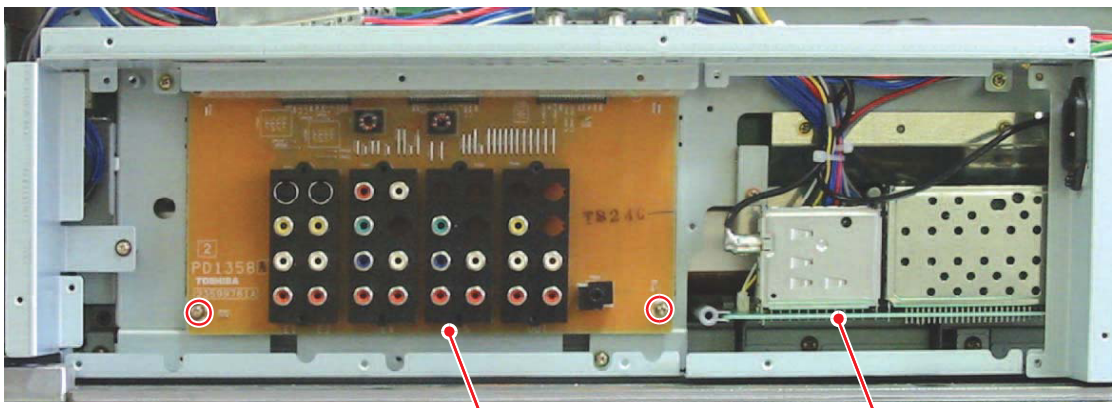
■ Removing the back terminal panel

- Remove 9 screws encircled in red.
- Remove 4 screws enclosed in red squares.

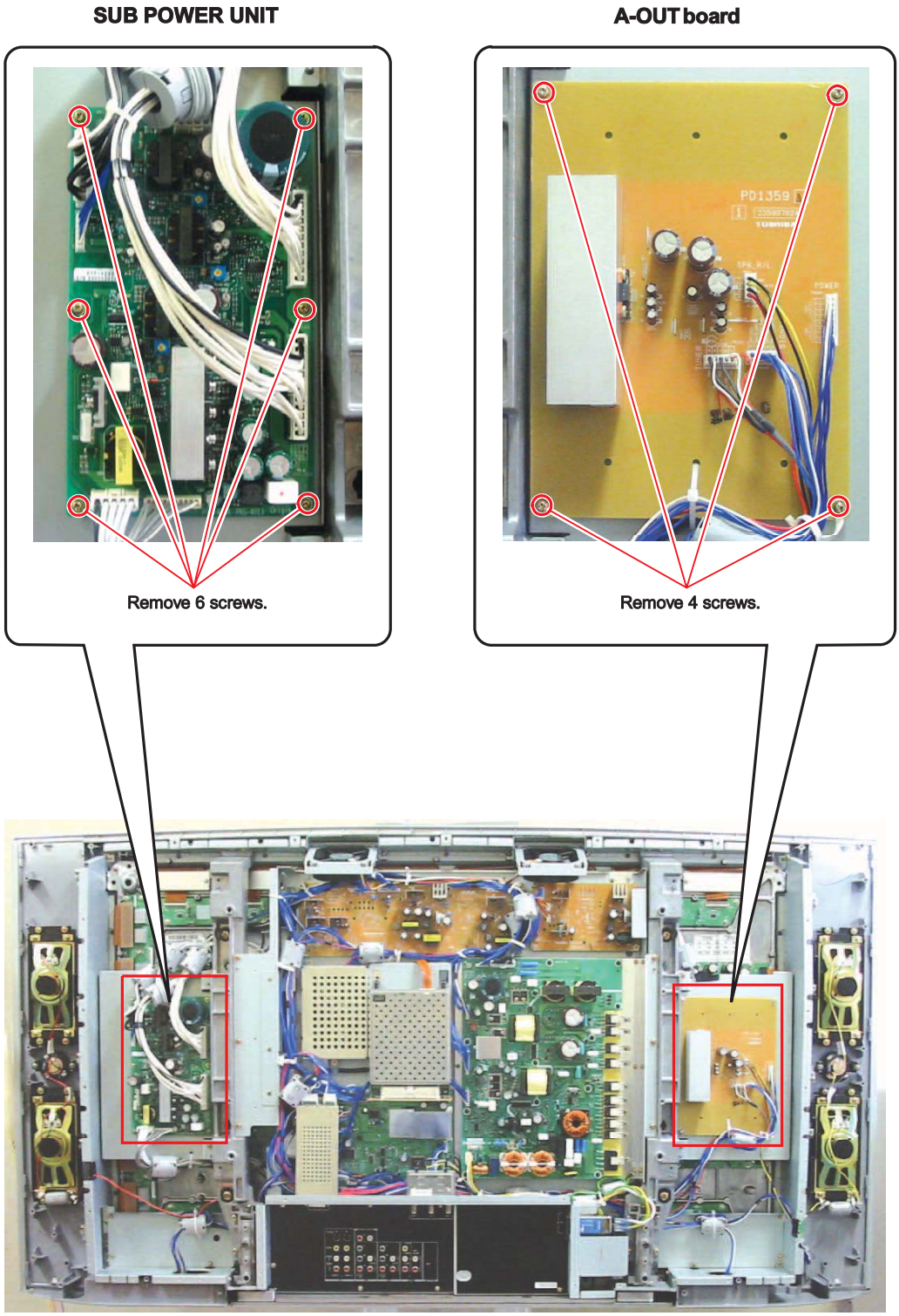


■ Removing the BACK/AV board

- Remove 2 screws.

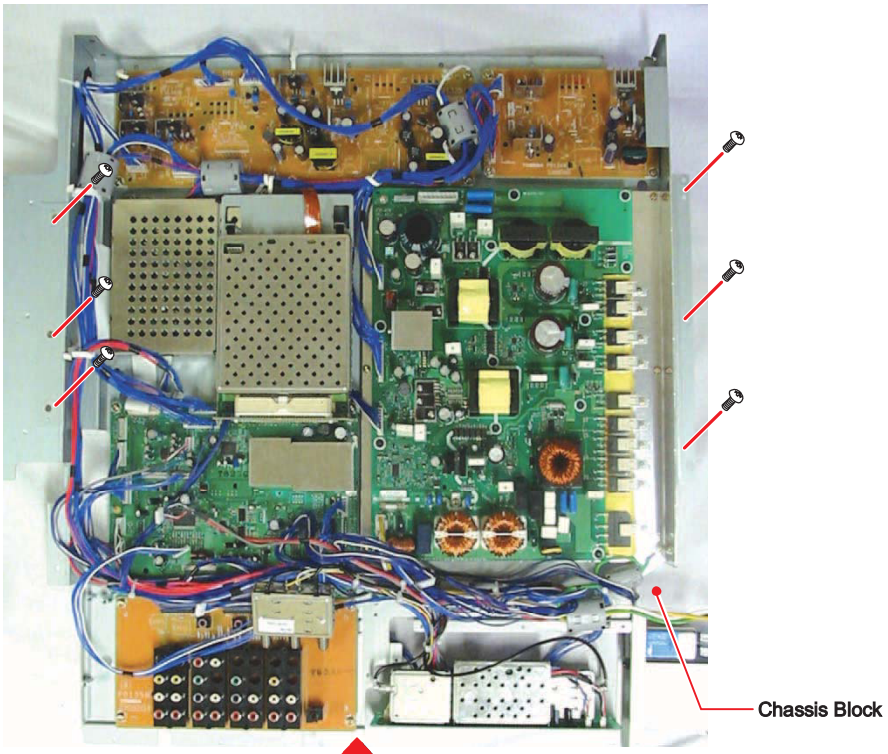


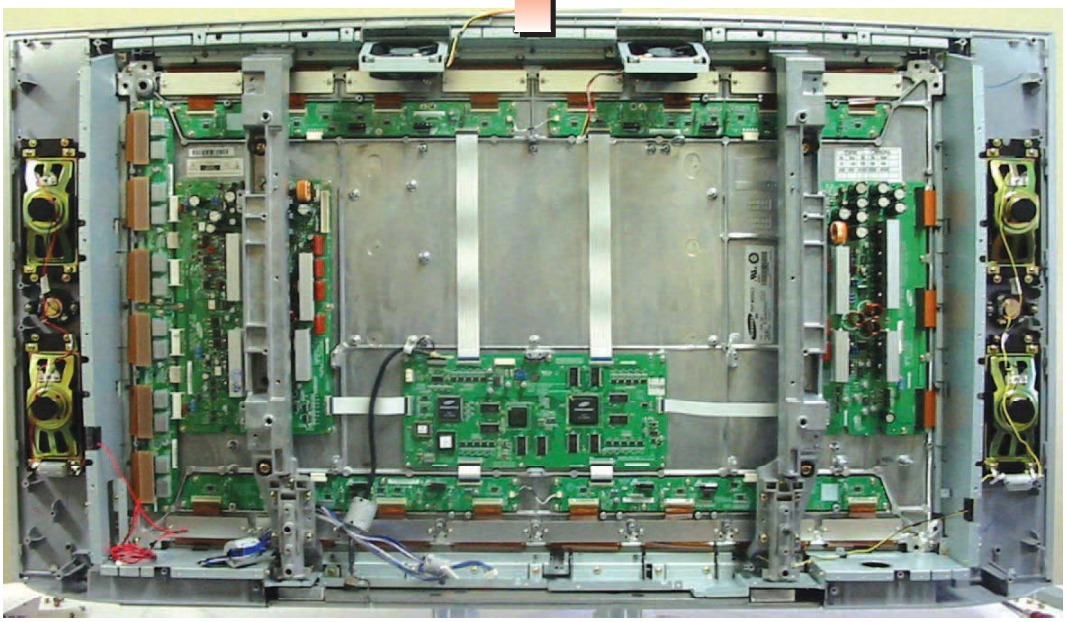
■ Removing the A-OUT board and SUB POWER UNIT



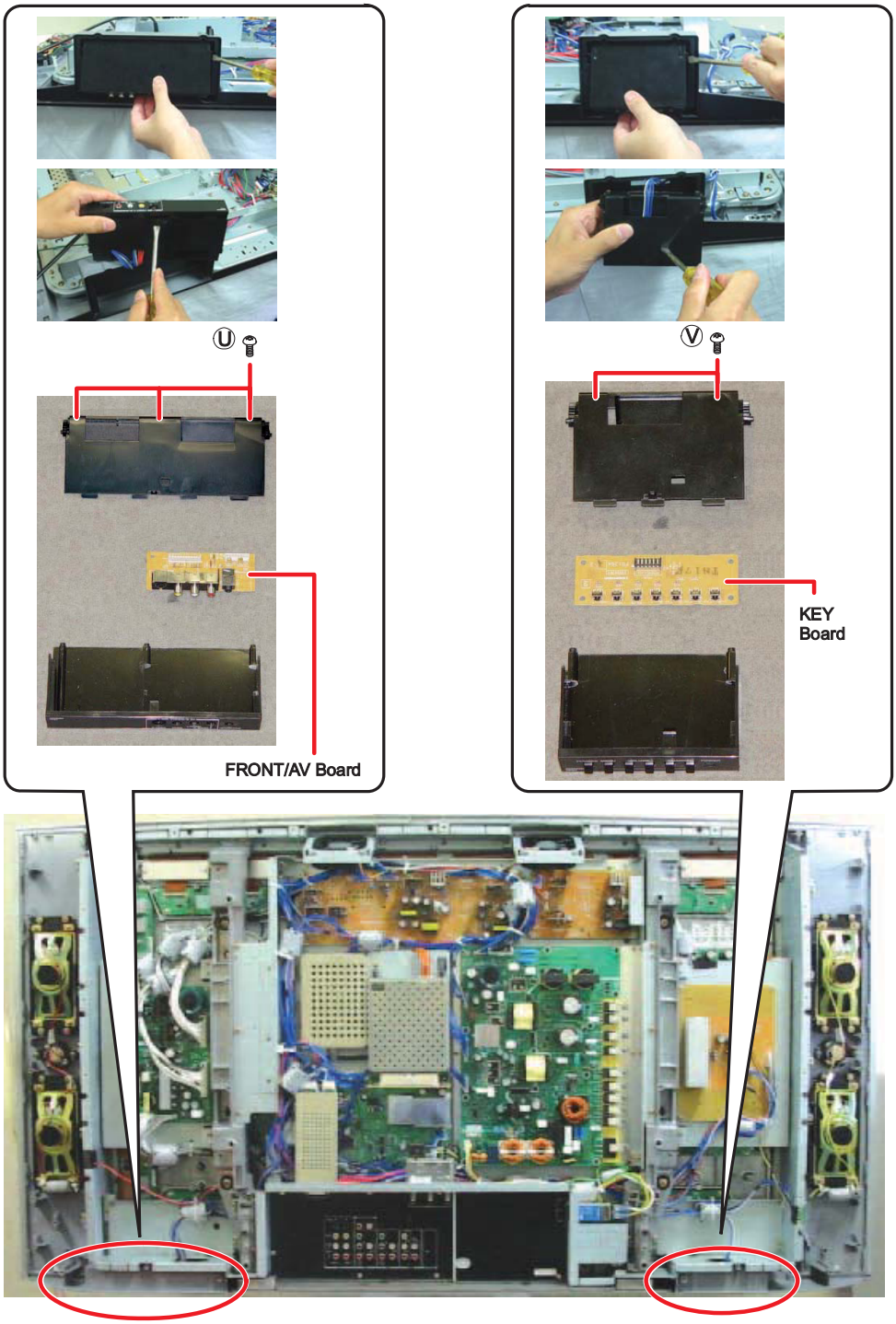
■ Removing the chassis block

- Remove 6 screws.

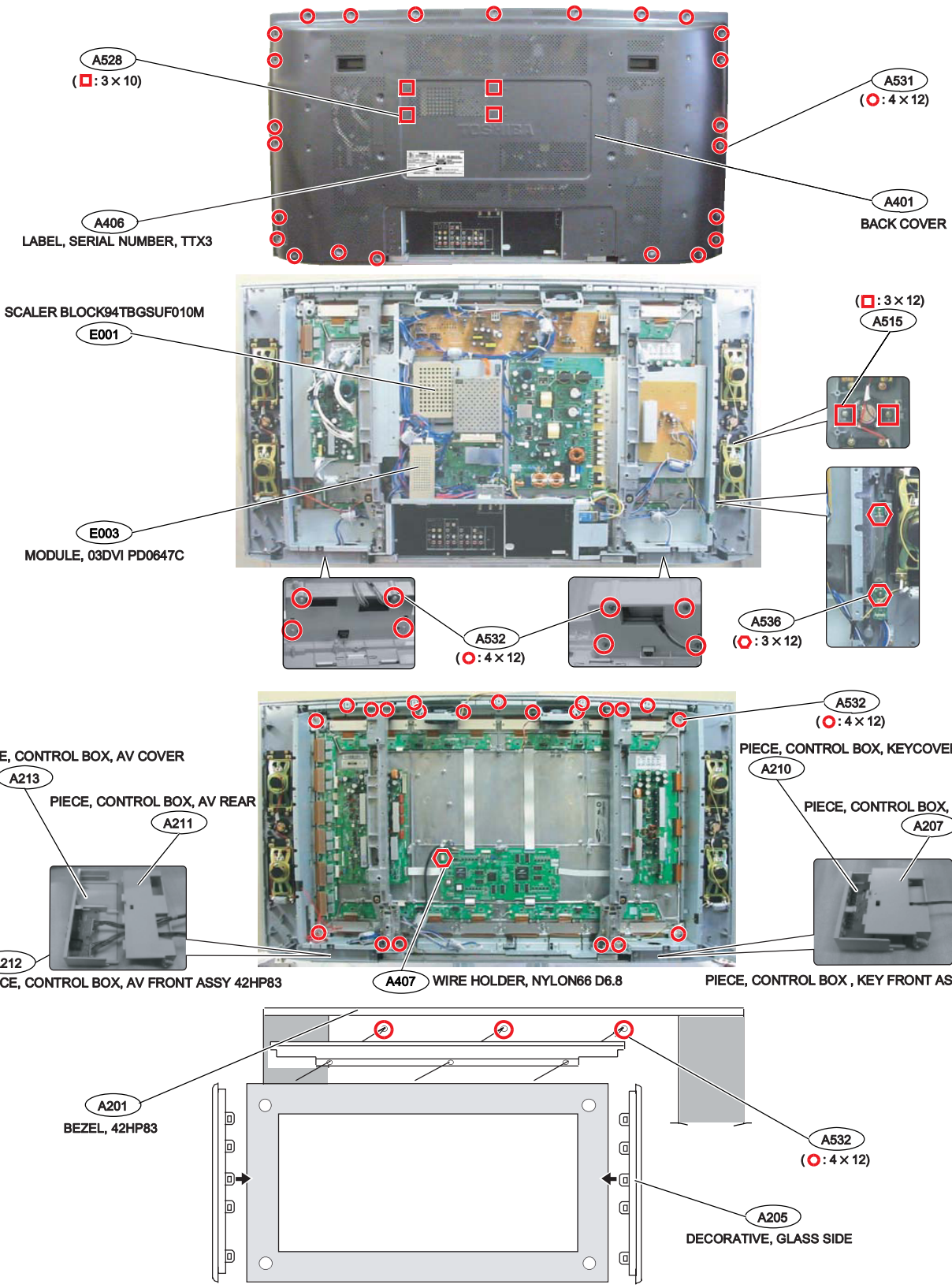




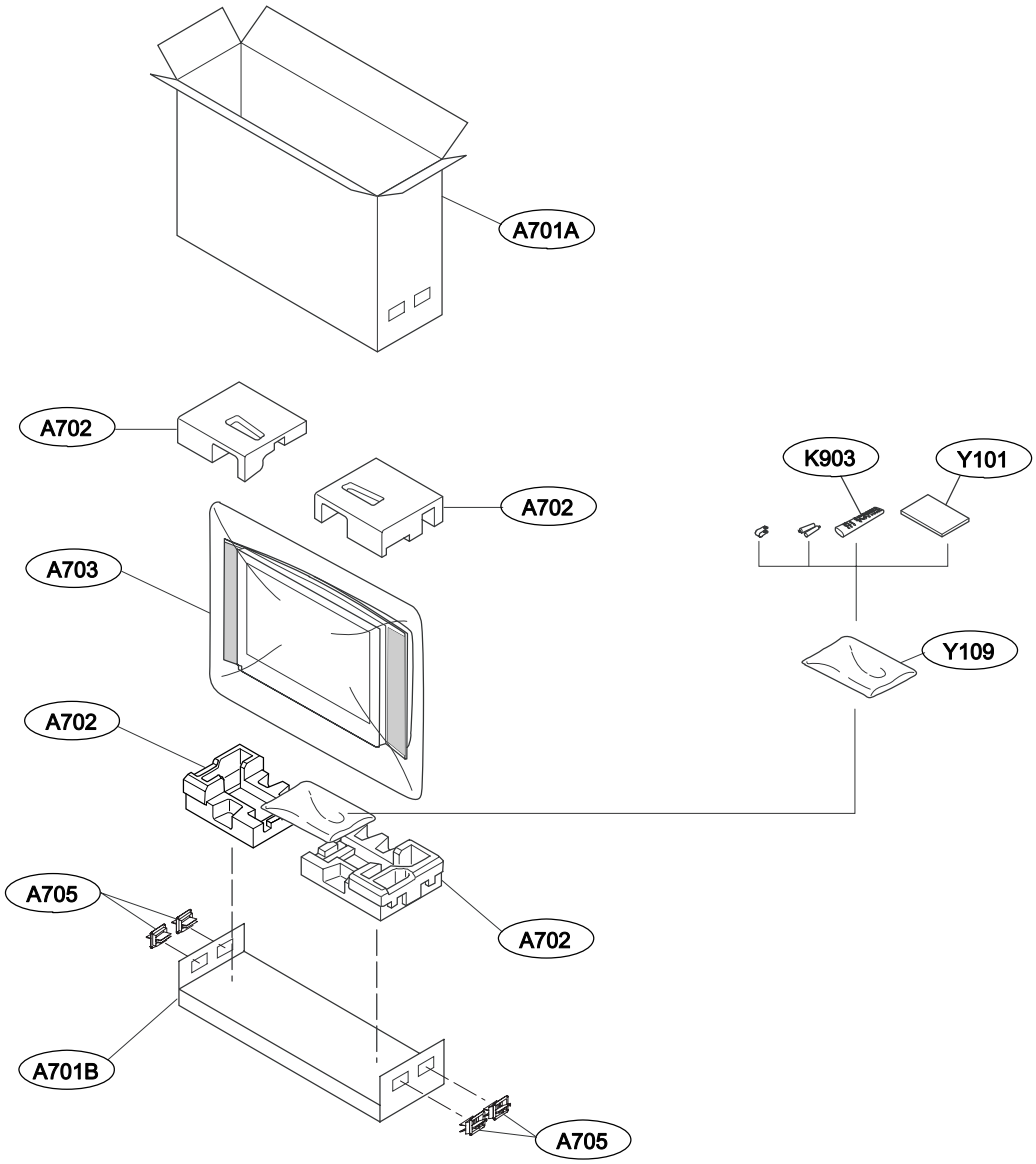
■ Removing the FRONT/AV board and KEY board



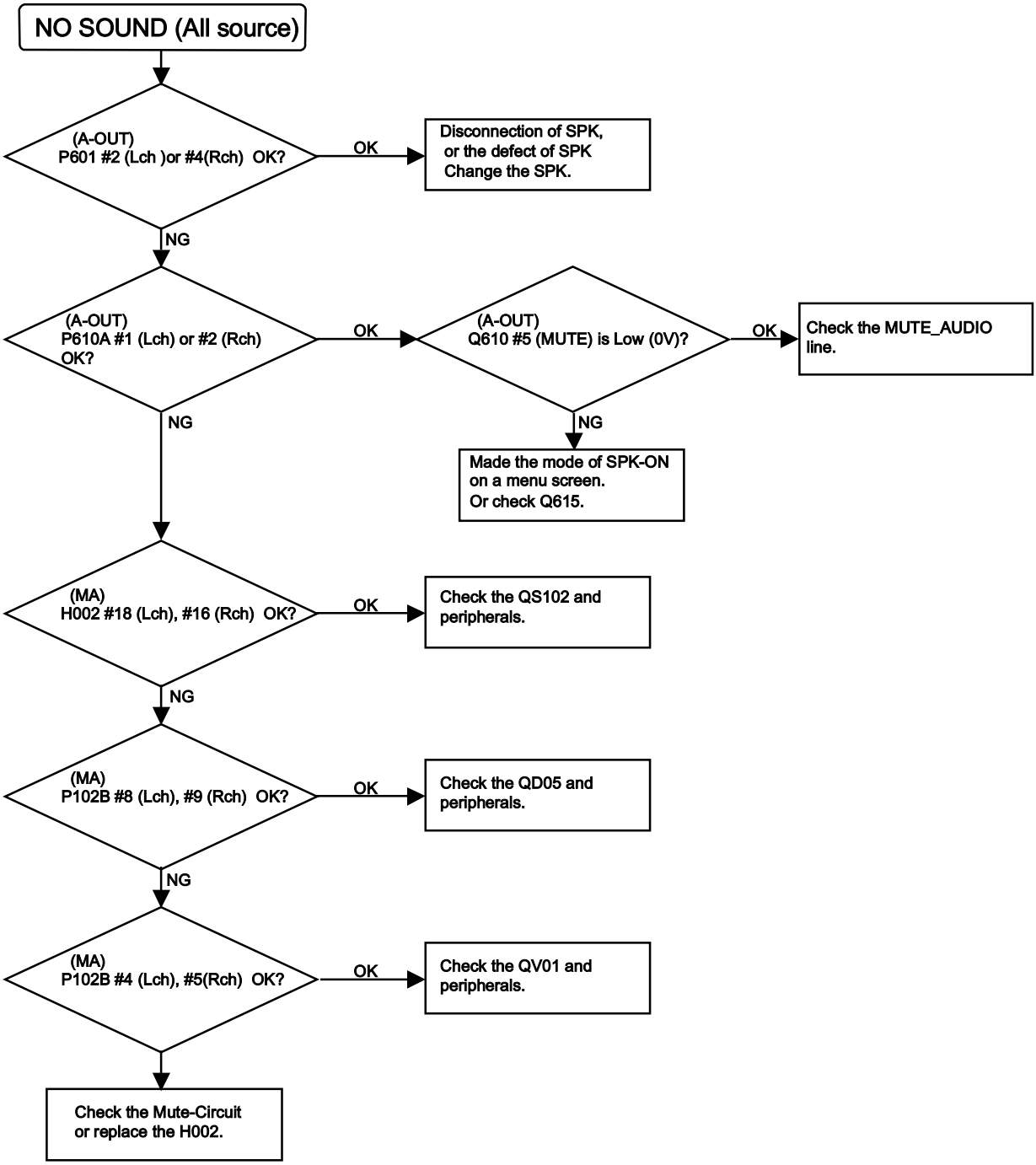
EXPLODED VIEW

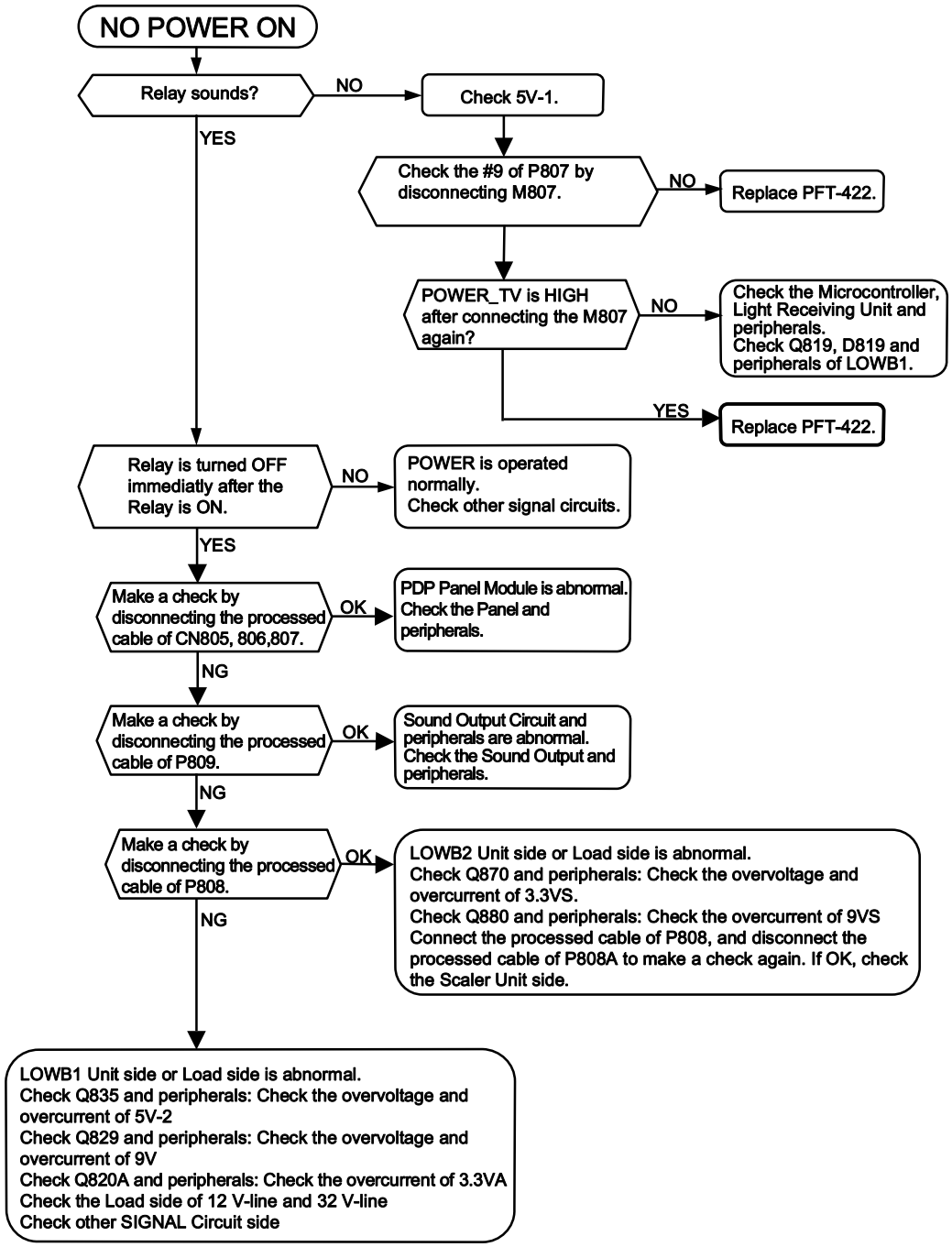


PACKING DISASSEMBLY



TROUBLESHOOTING




NO POWER ON
Relay sounds?
NO
Check 5V-1.
YES
Check the #9 of P807 by disconnecting M807.
NO
Replace PFT-422.
POWER_TV is HIGH after connecting the M807 again?
NO
Check the Microcontroller, Light Receiving Unit and peripherals.
Check Q819, D819 and peripherals of LOWB1.
YES
Replace PFT-422.
Relay is turned OFF immediatly after the Relay is ON.
NO
POWER is operated normally.
Check other signal circuits.
YES
Make a check by disconnecting the processed cable of CN805, 806,807.
OK
PDP Panel Module is abnormal.
Check the Panel and peripherals.
NG
Make a check by disconnecting the processed cable of P809.
OK
Sound Output Circuit and peripherals are abnormal.
Check the Sound Output and peripherals.
NG
Make a check by disconnecting the processed cable of P808.
OK
LOWB2 Unit side or Load side is abnormal.
Check Q870 and peripherals: Check the overvoltage and overcurrent of 3.3VS.
Check Q880 and peripherals: Check the overcurrent of 9VS
Connect the processed cable of P808, and disconnect the processed cable of P808A to make a check again. If OK, check the Scaler Unit side.
NG
LOWB1 Unit side or Load side is abnormal.
Check Q835 and peripherals: Check the overvoltage and overcurrent of 5V-2
Check Q829 and peripherals: Check the overvoltage and overcurrent of 9V
Check Q820A and peripherals: Check the overcurrent of 3.3VA
Check the Load side of 12 V-line and 32 V-line
Check other SIGNAL Circuit side

Note: When PTF-422 is broken down, replace the whole POWER Unit. (Never repair the inside of PTF-422.)

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate com-ponents which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ∨ mark is no longer available after the end of the production.*

Model : 42HP83

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	: Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	: Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C102	24793221	ELECTROLYTIC, 10V 220UF M
C103	24109102	CERAMIC CHIP, 50V B 1000PF K
C104	24797479	ELECTROLYTIC, 50V 4.7UF M
C105	24763221	ELECTROLYTIC, 16V 220UF M
C108	24793221	ELECTROLYTIC, 10V 220UF M
C122	24092730	CERAMIC CHIP, 16V B 0.1UF K
C124	24109471	CERAMIC CHIP, 50V B 470PF K
C126	24109471	CERAMIC CHIP, 50V B 470PF K
C127	24763101	ELECTROLYTIC, 16V 100UF M
C131	24793221	ELECTROLYTIC, 10V 220UF M
C132	24763101	ELECTROLYTIC, 16V 100UF M
C133	24109102	CERAMIC CHIP, 50V B 1000PF K
C161	24109472	CERAMIC CHIP, 50V B 4700PF K
C162	24109472	CERAMIC CHIP, 50V B 4700PF K
C172	24669339	ELECTROLYTIC, 50V 3.3UF M
C522	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C523	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C524	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C605	24109102	CERAMIC CHIP, 50V B 1000PF K
C606	24109102	CERAMIC CHIP, 50V B 1000PF K
C612	24761102	ELECTROLYTIC, 6.3V 1000UF M
C621	24109103	CERAMIC CHIP, 50V B 0.01UF K
C622	24109103	CERAMIC CHIP, 50V B 0.01UF K
C631	24092463	CERAMIC CHIP, 16V B 0.22UF K
C632	24092463	CERAMIC CHIP, 16V B 0.22UF K
C640	24794102	ELECTROLYTIC, 16V 1000UF M
C641	24794470	ELECTROLYTIC, 16V 47UF M
C642	24794470	ELECTROLYTIC, 16V 47UF M
C645	24815103	CERAMIC CHIP, 50V B 10000PF K
C653	24797010	ELECTROLYTIC, 50V 1UF M
C659	24591102	PLASTIC FILM, 50V 1000PF J
C661	24109102	CERAMIC CHIP, 50V B 1000PF K
C662	24109102	CERAMIC CHIP, 50V B 1000PF K
C663	24206108	ELECTROLYTIC, 50V 0.1UF M 7L 3A
C665	24797339	ELECTROLYTIO, 50V 3.3UF M
C666	24797339	ELECTROLYTIO, 50V 3.3UF M
C667	24797478	ELECTROLYTIC, 50V 0.47UF M
C668	24797478	ELECTROLYTIC, 50V 0.47UF M

Location No.	Parts No.	Description
C669	24105221	CERAMIC CHIP, 50V CH 220PF J
C671	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C672	24797229	ELECTROLYTIC, 50V 2.2UF M
C673	24797229	ELECTROLYTIC, 50V 2.2UF M
C674	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C675	24666470	ELECTORLYTIC, 16V 47UF M 3A
C676	24797010	ELECTROLYTIC, 50V 1UF M
C677	24105821	CERAMIC CHIP, 25V CH 820PF J
C678	24105821	CERAMIC CHIP, 25V CH 820PF J
C679	24105221	CERAMIC CHIP, 50V CH 220PF J
C680	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C681	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C682	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C684	24285104	CERAMIC CHIP, 50V B 0.1UF K
C685	24285104	CERAMIC CHIP, 50V B 0.1UF K
C690	24815103	CERAMIC CHIP, 50V B 10000PF K
C811	24539474	PLASTIC FILM, 50V 0.47UF J
C816	24797010	ELECTROLYTIC, 50V 1UF M
C819	24539684	PLASTIC FILM, 50V 0.68UF J
C820	24539334	PLASTIC FILM, 50V 0.33UF J
C821	24669339	ELECTROLYTIC, 50V 3.3UF M
C822	24666470	ELECTORLYTIC, 16V 47UF M 3A
C823	24669100	ELECTROLYTIC, 50V 10UF M 3A
C832	24617006	ELECTROLYTIC, 25V 820UF M
C834	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C835	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C837	24617006	ELECTROLYTIC, 25V 820UF M
C838	24617006	ELECTROLYTIC, 25V 820UF M
C839	24539104	PLASTIC FILM, 50V 0.1UF J
C841	24617043	ELECTROLYTIC04CH 35V 1000UF M
C844	24539104	PLASTIC FILM, 50V 0.1UF J
C849	24765470	ELECTROLYTICCE04G 35V 47UF M
C850	24590103	PLASTIC FILM, 50V 0.01UF J
C865	24617006	ELECTROLYTIC, 25V 820UF M
C870	24617043	ELECTROLYTIC04CH 35V 1000UF M
C871	24539104	PLASTIC FILM, 50V 0.1UF J
C872	24214221	CERAMIC DISC, 500V B 220PF K
C874	24539104	PLASTIC FILM, 50V 0.1UF J
C875	24617006	ELECTROLYTIC, 25V 820UF M

Location No.	Parts No.	Description
C876	24617030	ELECTROLYTIC, 16V 2200UF M
C880	24669100	ELECTROLYTIC, 50V 10UF M 3A
C881	24666470	ELECTORLYTIC, 16V 47UF M 3A
C890	24590102	PLASTIC FILM, 50V 1000PF J
C891	24539104	PLASTIC FILM, 50V 0.1UF J
C892	24666470	ELECTORLYTIC, 16V 47UF M 3A
C927	24092730	CERAMIC CHIP, 16V B 0.1UF K
C3301	24092538	CERAMIC CHIP, 10V F 1UF Z
C3302	24105102	CERAMIC CHIP, 25V CH 1000PF J
C3303	24092730	CERAMIC CHIP, 16V B 0.1UF K
C3304	24105471	CERAMIC CHIP, 50V CH 470PF J
C4702	24109223	CERAMIC CHIP, 25V B 0.022UF K
C4703	24073082	ELECTROLYTIC, 50V 2.2UF M 3A
C4704	24092753	CERAMIC CHIP, 10V B 0.22UF K
C4705	24073082	ELECTROLYTIC, 50V 2.2UF M 3A
C4706	24109221	CERAMIC CHIP, 50V B 220PF K
C4707	24092730	CERAMIC CHIP, 16V B 0.1UF K
C4708	24073041	ELECTROLYTIC, 16V 470UF M 3A
C4709	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4710	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4711	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4712	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4713	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4714	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4715	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4716	24092730	CERAMIC CHIP, 16V B 0.1UF K
C4717	24073038	ELECTROLYTIC, 16V 100UF M 3A
C8291	24539104	PLASTIC FILM, 50V 0.1UF J
C8351	24539104	PLASTIC FILM, 50V 0.1UF J
CB01	24794470	ELECTROLYTIC, 16V 47UF M
CB40	24092538	CERAMIC CHIP, 10V F 1UF Z
CB41	24109222	CERAMIC CHIP, 50V B 2200PF K
CB42	24105561	CERAMIC CHIP, 50V CH 560PF J
CB43	24109332	CERAMIC CHIP, 50V B 3300PF K
CB45	24092538	CERAMIC CHIP, 10V F 1UF Z
CB46	24109222	CERAMIC CHIP, 50V B 2200PF K
CB47	24105561	CERAMIC CHIP, 50V CH 560PF J
CB51	24590103	PLASTIC FILM, 50V 0.01UF J
CB52	24794470	ELECTROLYTIC, 16V 47UF M
CB53	24503041	PLASTIC FILM, 63V 0.1UF J
CB54	24109221	CERAMIC CHIP, 50V B 220PF K
CB55	24797010	ELECTROLYTIC, 50V 1UF M
CB56	24794470	ELECTROLYTIC, 16V 47UF M
CB59	24590103	PLASTIC FILM, 50V 0.01UF J
CB60	24794100	ELECTROLYTIC, 16V 10UF M
CB61	24503041	PLASTIC FILM, 63V 0.1UF J
CC01	24109102	CERAMIC CHIP, 50V B 1000PF K
CC02	24109102	CERAMIC CHIP, 50V B 1000PF K
CC03	24109102	CERAMIC CHIP, 50V B 1000PF K
CC04	24109102	CERAMIC CHIP, 50V B 1000PF K
CC05	24109102	CERAMIC CHIP, 50V B 1000PF K
CC06	24109102	CERAMIC CHIP, 50V B 1000PF K
CC07	24109102	CERAMIC CHIP, 50V B 1000PF K
CC08	24109102	CERAMIC CHIP, 50V B 1000PF K
CC09	24109102	CERAMIC CHIP, 50V B 1000PF K
CC10	24109102	CERAMIC CHIP, 50V B 1000PF K
CC11	24109102	CERAMIC CHIP, 50V B 1000PF K
CC12	24109102	CERAMIC CHIP, 50V B 1000PF K
CC14	24109102	CERAMIC CHIP, 50V B 1000PF K
CC15	24109102	CERAMIC CHIP, 50V B 1000PF K
CC18	24109102	CERAMIC CHIP, 50V B 1000PF K
CC19	24109102	CERAMIC CHIP, 50V B 1000PF K
CC77	24105101	CERAMIC CHIP, 50V CH 100PF J
CC78	24105101	CERAMIC CHIP, 50V CH 100PF J
CC99	24591102	PLASTIC FILM, 50V 1000PF J

Location No.	Parts No.	Description
CE50	24617043	ELECTROLYTIC04CH 35V 1000UF M
CE51	24539104	PLASTIC FILM, 50V 0.1UF J
CE52	24214221	CERAMIC DISC, 500V B 220PF K
CE54	24539104	PLASTIC FILM, 50V 0.1UF J
CE55	24617006	ELECTROLYTIC, 25V 820UF M
CE56	24617006	ELECTROLYTIC, 25V 820UF M
CE90	24539334	PLASTIC FILM, 50V 0.33UF J
CE91	24666470	ELECTORLYTIC, 16V 47UF M 3A
CE92	24669339	ELECTROLYTIC, 50V 3.3UF M
CE95	24539334	PLASTIC FILM, 50V 0.33UF J
CE96	24666470	ELECTORLYTIC, 16V 47UF M 3A
CE97	24669339	ELECTROLYTIC, 50V 3.3UF M
CS01	24092538	CERAMIC CHIP, 10V F 1UF Z
CS02	24092538	CERAMIC CHIP, 10V F 1UF Z
CS03	24092538	CERAMIC CHIP, 10V F 1UF Z
CS04	24092538	CERAMIC CHIP, 10V F 1UF Z
CS05	24092538	CERAMIC CHIP, 10V F 1UF Z
CS06	24092538	CERAMIC CHIP, 10V F 1UF Z
CS07	24092538	CERAMIC CHIP, 10V F 1UF Z
CS08	24092538	CERAMIC CHIP, 10V F 1UF Z
CS09	24092538	CERAMIC CHIP, 10V F 1UF Z
CS10	24092538	CERAMIC CHIP, 10V F 1UF Z
CS11	24092538	CERAMIC CHIP, 10V F 1UF Z
CS12	24092538	CERAMIC CHIP, 10V F 1UF Z
CS13	24794100	ELECTROLYTIC, 16V 10UF M
CS14	24794100	ELECTROLYTIC, 16V 10UF M
CS15	24092726	CERAMIC CHIPCK733B 16V 2, 200, 000PFK
CS16	24092726	CERAMIC CHIPCK733B 16V 2, 200, 000PFK
CS20	24669478	ELECTROLYTIC, 50V 0.47UF M 3A
CS21	24797479	ELECTROLYTIC, 50V 4.7UF M
CS22	24797479	ELECTROLYTIC, 50V 4.7UF M
CS23	24092538	CERAMIC CHIP, 10V F 1UF Z
CS24	24092538	CERAMIC CHIP, 10V F 1UF Z
CS25	24763101	ELECTROLYTIC, 16V 100UF M
CS26	24092726	CERAMIC CHIPCK733B 16V 2,200,000PFK
CS27	24092726	CERAMIC CHIPCK733B 16V 2,200,000PFK
CS30	24092726	CERAMIC CHIPCK733B 16V 2,200,000PFK
CS31	24092726	CERAMIC CHIPCK733B 16V 2,200,000PFK
CS34	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CS35	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CS39	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CS51	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
CS501	24092731	CERAMIC CHIP, 16V B 1UF K
CS502	24092726	CERAMIC CHIPCK733B 16V 2, 200, 000PFK
CS503	24092731	CERAMIC CHIP, 16V B 1UF K
CS504	24105101	CERAMIC CHIP, 50V CH 100PF J
CS505	24105101	CERAMIC CHIP, 50V CH 100PF J
CS510	24092542	CERAMIC CHIPCK733 B 16V 1.0UF K
CV01	24092621	CERAMIC CHIP, 10V B 1UF K
CV02	24092621	CERAMIC CHIP, 10V B 1UF K
CV03	24092621	CERAMIC CHIP, 10V B 1UF K
CV04	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV05	24092621	CERAMIC CHIP, 10V B 1UF K
CV06	24092621	CERAMIC CHIP, 10V B 1UF K
CV07	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV08	24794102	ELECTROLYTIC, 16V 1000UF M
CV09	24092621	CERAMIC CHIP, 10V B 1UF K
CV10	24794100	ELECTROLYTIC, 16V 10UF M
CV11	24092621	CERAMIC CHIP, 10V B 1UF K
CV12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV14	24092621	CERAMIC CHIP, 10V B 1UF K
CV15	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV23	24794101	ELECTROLYTIC, 16V 100UF M
CV24	24100104	CERAMIC CHIP, 25V F 0.1UF Z

Location No.	Parts No.	Description
CV38	24109102	CERAMIC CHIP, 50V B 1000PF K
CV39	24109102	CERAMIC CHIP, 50V B 1000PF K
CV40	24794101	ELECTROLYTIC, 16V 100UF M
CV42	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV45	24092621	CERAMIC CHIP, 10V B 1UF K
CV46	24092621	CERAMIC CHIP, 10V B 1UF K
CV47	24092621	CERAMIC CHIP, 10V B 1UF K
CV48	24109332	CERAMIC CHIP, 50V B 3300PF K
CV64	24794471	ELECTROLYTIC, 16V 470UF M
CV65	24794101	ELECTROLYTIC, 16V 100UF M
CV66	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV67	24794100	ELECTROLYTIC, 16V 10UF M
CV68	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV73	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV79	24794102	ELECTROLYTIC, 16V 1000UF M
CV80	24793222	ELECTROLYTIC, 10V 2200UF M
CV121	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV237	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV238	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV239	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV243	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
CV244	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV245	24092441	CERAMIC CHIP, 16V F 1UF Z
CV246	24092441	CERAMIC CHIP, 16V F 1UF Z
CV247	24092441	CERAMIC CHIP, 16V F 1UF Z
CV248	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV249	24092441	CERAMIC CHIP, 16V F 1UF Z
CV250	24092441	CERAMIC CHIP, 16V F 1UF Z
CV251	24092441	CERAMIC CHIP, 16V F 1UF Z
CV252	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV253	24092441	CERAMIC CHIP, 16V F 1UF Z
CV254	24092441	CERAMIC CHIP, 16V F 1UF Z
CV255	24092441	CERAMIC CHIP, 16V F 1UF Z
CV256	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV257	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
CV258	24794102	ELECTROLYTIC, 16V 1000UF M
CV259	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV261	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV263	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY101	24092441	CERAMIC CHIP, 16V F 1UF Z
CY102	24794101	ELECTROLYTIC, 16V 100UF M
CY103	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CY104	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY105	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY106	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY107	24794100	ELECTROLYTIC, 16V 10UF M
CY108	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CY109	24105101	CERAMIC CHIP, 50V CH 100PF J
CY111	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY112	24105181	CERAMIC CHIP, 50V CH 180PF J
CY113	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY114	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY115	24105390	CERAMIC CHIP, 50V CH 39PF J
CY116	24105470	CERAMIC CHIP, 50V CH 47PF J
CY117	24105180	CERAMIC CHIP, 50V CH 18PF J
CY501	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY502	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY504	24109222	CERAMIC CHIP, 50V B 2200PF K
CY505	24105120	CERAMIC CHIP, 50V CH 12PF J
CY506	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY508	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY512	24092463	CERAMIC CHIP, 16V B 0.22UF K
CY513	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY514	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY515	24092730	CERAMIC CHIP, 16V B 0.1UF K

Location No.	Parts No.	Description
CY516	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY517	24092731	CERAMIC CHIP, 16V B 1UF K
CY524	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY525	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY526	24092730	CERAMIC CHIP, 16V B 0.1UF K
CY538	24794102	ELECTROLYTIC, 16V 1000UF M
CY539	24794102	ELECTROLYTIC, 16V 1000UF M
CY582	24105101	CERAMIC CHIP, 50V CH 100PF J
CY650	24591102	PLASTIC FILM, 50V 1000PF J
CY651	24591102	PLASTIC FILM, 50V 1000PF J
CY652	24591102	PLASTIC FILM, 50V 1000PF J

RESISTORS

R102	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R103	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R104	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R110	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R120	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R121	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R131	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R132	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R133	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R134	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R135	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R150	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R151	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R152	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R264	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
R265	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
R266	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
R286	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
R287	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
R288	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
R563	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R601	24554470	OXIDE METAL FILM, 2W 47 OHM J
R617	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R630	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R631	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R640	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R641	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R650	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R652	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R655	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R660	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
R661	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R662	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R670	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R671	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R672	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R673	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R674	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
R675	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R676	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R677	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R678	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R679	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R684	24871229	CHIP, METAL FILM, 1/8W 2.2 OHM J
R685	24871229	CHIP, METAL FILM, 1/8W 2.2 OHM J
R686	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R687	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R688	24366151	CARBON FILM, 1/6W 150 OHM J
R690	24366151	CARBON FILM, 1/6W 150 OHM J
R816	24366471	CARBON FILM, 1/6W 470 OHM J
R817	24366101	CARBON FILM, 1/6W 100 OHM J
R818	24366331	CARBON FILM, 1/6W 330 OHM J

Location No.	Parts No.	Description
R819	24366102	CARBON FILM, 1/6W 1K OHM J
R820	24367681	CARBON FILM, 1/6W 680 OHM G
R821	24367220	CARBON FILM, 1/6W 22 OHM G
R822	24367391	CARBON FILM, 1/6W 390 OHM G
R832	24366102	CARBON FILM, 1/6W 1K OHM J
R835	24367682	CARBON FILM, 1/6W 6.8K OHM G
R838	24367240	CARBON FILM, 1/6W 24 OHM G
R839	24366102	CARBON FILM, 1/6W 1K OHM J
R845	24367122	CARBON FILM, 1/6W 1.2K OHM G
R848	24366103	CARBON FILM, 1/6W 10K OHM J
R852	24367114	CARBON FILM, 1/6W 110K OHM G
R853	24366683	CARBON FILM, 1/6W 68K OHM J
R870	24000241	METAL FILM, 1/4W 47 OHM F 50P
R871	24000356	METAL FILM, 1/4W 820 OHM F
R872	24366102	CARBON FILM, 1/6W 1K OHM J
R890	24366102	CARBON FILM, 1/6W 1K OHM J
R891	24366332	CARBON FILM, 1/6W 3.3K OHM J
R892	24366332	CARBON FILM, 1/6W 3.3K OHM J
R893	24366473	CARBON FILM, 1/6W 47K OHM J
R929	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R3301	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R3302	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R3303	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R3304	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R3305	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R3306	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R3307	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R3308	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4701	24011361	CHIP, METAL FILM, 1/20W 360 OHM J
R4702	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R4704	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4705	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R4708	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4709	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R4710	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4711	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4712	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4714	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4715	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4716	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4717	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RA71	24366273	CARBON FILM, 1/6W 27K OHM J
RA72	24366153	CARBON FILM, 1/6W 15K OHM J
RA73	24366822	CARBON FILM, 1/6W 8.2K OHM J
RA75	24366822	CARBON FILM, 1/6W 8.2K OHM J
RA76	24366153	CARBON FILM, 1/6W 15K OHM J
RB01	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RB04	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB15	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RB19	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RB37	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB38	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RB39	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB40	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB41	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB42	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB43	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB44	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RB45	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB46	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB47	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB48	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB51	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RB52	24011123	CHIP, METAL FILM, 1/20W 12K OHM J

Location No.	Parts No.	Description
RB53	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB54	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB55	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RB56	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RB57	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB58	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB59	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RB60	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RB61	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RB62	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RB63	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB67	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RB69	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RB70	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB71	24019112	CHIP, METAL FILM, 1/8W 1 OHM F
RB72	24011220	CHIP, METAL FILM, 1/20W 22 OHM J
RB73	24011560	CHIP, METAL FILM, 1/20W 56 OHM J
RC01	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC02	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC03	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC04	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC05	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC06	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC07	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC08	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC11	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC12	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC15	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC16	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RE50	24367682	CARBON FILM, 1/6W 6.8K OHM G
RE51	24367203	CARBON FILM, 1/6W 20K OHM G
RE52	24366102	CARBON FILM, 1/6W 1K OHM J
RE53	24366683	CARBON FILM, 1/6W 68K OHM J
RE90	24367122	CARBON FILM, 1/6W 1.2K OHM G
RE91	24367470	CARBON FILM, 1/6W 47 OHM G
RE92	24367391	CARBON FILM, 1/6W 390 OHM G
RE95	24367751	CARBON FILM, 1/6W 750 OHM G
RE96	24367560	CARBON FILM, 1/6W 56 OHM G
RE97	24367391	CARBON FILM, 1/6W 390 OHM G
RS01	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS02	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS03	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS04	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS05	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS06	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS07	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS09	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS11	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS12	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS13	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RS14	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RS15	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS16	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS18	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS19	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS20	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS21	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS25	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS26	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS27	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS28	24011102	CHIP, METAL FILM, 1/20W 1K OHM J

Location No.	Parts No.	Description
RS29	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS30	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS31	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS32	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS33	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS34	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS35	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS36	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RS37	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS38	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS39	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS40	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS41	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS42	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS44	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS45	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS46	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS47	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS48	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS49	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS50	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS51	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RS52	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RS53	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS54	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
RS55	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS56	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS57	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS58	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS59	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS60	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS61	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS62	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS64	24011393	CHIP, METAL FILM, 1/20W 39K OHM J
RS65	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
RS66	24011393	CHIP, METAL FILM, 1/20W 39K OHM J
RS67	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
RS74	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS75	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RS76	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS79	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS80	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS103	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS112	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS116	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS500	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS501	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS504	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS505	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS506	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RS507	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RS515	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RS516	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS517	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RV01	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV06	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV07	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV08	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV11	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV12	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV14	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J

Location No.	Parts No.	Description
RV15	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV19	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV20	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV21	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV26	24011561	CHIP, METAL FILM, 1/20W 560 OHM J
RV27	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV29	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV30	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV33	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV34	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV35	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV36	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV37	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV40	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV41	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV60	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV61	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV62	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV66	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV70	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV71	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV72	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV73	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV74	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV75	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV76	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RV77	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV78	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV79	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RV89	24000445	CHIP JUMPER, 1608TYPE
RV90	24000445	CHIP JUMPER, 1608TYPE
RV91	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV92	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV93	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RV98	24000445	CHIP JUMPER, 1608TYPE
RV99	24000445	CHIP JUMPER, 1608TYPE
RV100	24000445	CHIP JUMPER, 1608TYPE
RV101	24000445	CHIP JUMPER, 1608TYPE
RV120	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV121	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV122	24871750	CHIP, METAL FILM, 1/8W 75 OHM J
RV129	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV252	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV253	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV254	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV255	24871561	CHIP, METAL FILM, 1/8W 560 OHM J
RV256	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV257	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV258	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV259	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV260	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV261	24871561	CHIP, METAL FILM, 1/8W 560 OHM J
RV323	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RV324	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RV325	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RV330	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV331	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV332	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV337	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV338	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV346	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV347	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV348	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV351	24011680	CHIP, METAL FILM, 1/20W 68 OHM J

Location No.	Parts No.	Description
RV352	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
RV353	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
RV354	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
RV355	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
RV356	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
RV357	24000445	CHIP JUMPER, 1608TYPE
RV358	24000445	CHIP JUMPER, 1608TYPE
RV359	24000445	CHIP JUMPER, 1608TYPE
RV360	24000445	CHIP JUMPER, 1608TYPE
RV361	24000445	CHIP JUMPER, 1608TYPE
RV362	24000445	CHIP JUMPER, 1608TYPE
RV363	24000445	CHIP JUMPER, 1608TYPE
RV364	24000445	CHIP JUMPER, 1608TYPE
RV365	24000445	CHIP JUMPER, 1608TYPE
RV366	24000445	CHIP JUMPER, 1608TYPE
RV367	24000445	CHIP JUMPER, 1608TYPE
RV376	24000445	CHIP JUMPER, 1608TYPE
RV377	24000445	CHIP JUMPER, 1608TYPE
RY101	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY102	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RY103	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY104	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY105	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
RY106	24000445	CHIP JUMPER, 1608TYPE
RY107	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY109	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RY110	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY501	24011303	CHIP, METAL FILM, 1/20W 30K OHM J
RY502	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY503	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RY504	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY505	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RY507	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RY508	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY509	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RY510	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY511	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY512	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY513	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY516	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY517	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY518	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY519	24000445	CHIP JUMPER, 1608TYPE
RY520	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY521	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY523	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY524	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
RY525	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY526	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY527	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY528	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RY529	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY530	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY531	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY532	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY533	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY534	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY539	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RY540	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RY541	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RY542	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RY543	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY545	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY548	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RY550	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J

Location No.	Parts No.	Description
RY551	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RY552	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY553	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RY554	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RY555	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RY560	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RY561	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RY562	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY573	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RY575	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY576	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RY585	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY590	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RY591	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RY592	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
COILS & TRANFORMERS		
L101	23289845	COIL, PEAKING, TRF4680AT
L134	23289845	COIL, PEAKING, TRF4680AT
L289	23248073	COIL, CHOKE, TLN3299D
L820	23280016	COIL, PEAKING, TRF4100AZ
L829	23248288	COIL, CHOKE, TLN3299GH
L833	23248236	COIL, CHOKE, TLN3441AF
L834	23248308	COIL, CHOKE, TLN3503GH
L835	23248341	COIL, CHOKE EI24 120MMH3.5A TLN3533AH
L836	23280019	COIL, PEAKING, TRF4330AZ
L839	23280019	COIL, PEAKING, TRF4330AZ
L849	23289844	COIL, PEAKING, TRF4470AT
L870	23248253	COIL, CHOKE EI22 47MMHTLN3502AF
L871	23280019	COIL, PEAKING, TRF4330AZ
L873	23248235	COIL, CHOKE, TLN3462AF
L880	23280019	COIL, PEAKING, TRF4330AZ
L4702	23103827	INDUCTOR, BEAD, TEM2120M
LB51	23246004	COIL, CHIP-INDUCTER-R10MMHJ TRF4R10CC
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LE50	23248308	COIL, CHOKE, TLN3503GH
LE51	23280018	COIL, PEAKING, TRF4220AZ
LE53	23248236	COIL, CHOKE, TLN3441AF
LE54	23248235	COIL, CHOKE, TLN3462AF
LE90	23280016	COIL, PEAKING, TRF4100AZ
LE95	23280019	COIL, PEAKING, TRF4330AZ
LV01	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV02	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV03	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV04	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV09	23289840	COIL, PEAKING, TRF4100AT
LV13	23289840	COIL, PEAKING, TRF4100AT
LV42	23289840	COIL, PEAKING, TRF4100AT
LV72	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV270	23289840	COIL, PEAKING, TRF4100AT
LV272	23103898	EMI FILTER, TEM2030AH
LV273	23103898	EMI FILTER, TEM2030AH
LV282	23103898	EMI FILTER, TEM2030AH
LV283	23103898	EMI FILTER, TEM2030AH
LY012	23246398	COIL, CHIP INDUCTOR 10MMH K COLTRF4100CV
LY100	23246405	COIL, CHIP INDUCTOR 33MMH J COLTRF4330CW
LY101	23103827	INDUCTOR, BEAD, TEM2120M
LY102	23103827	INDUCTOR, BEAD, TEM2120M
LY103	23103230	INDUCTOR, BEAD, TEM2134AD
LY104	23246404	COIL, CHIP INDUCTOR 15MMH J COLTRF4150CW
LY105	23246222	COIL, CHIP INDUCTOR, TRF4270CG
LY112	23103230	INDUCTOR, BEAD, TEM2134AD

Location No.	Parts No.	Description
LY501	23246398	COIL, CHIP INDUCTOR 10MMH K COLTRF4100CV
SEMICONDUCTORS		
Q131	23314204	TRANSISTOR, 2SC2412K, Q
Q151	23314994	TRANSISTOR, 2SA1576A106
Q152	23314993	TRANSISTOR, 2SC4081 Q
Q610	23906880	IC, TA8246AH
Q610B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q612	23314163	TRANSISTOR, 2SA1162-Y
Q615	23114493	TRANSISTOR, RN2404
Q620	23314475	TRANSISTOR, 2SC2712-Y
Q630	23009042	IC, LA4525
Q671	70114396	TRANSISTOR, 2SC3326B
Q672	70114396	TRANSISTOR, 2SC3326B
Q675	70114396	TRANSISTOR, 2SC3326B
Q676	70114396	TRANSISTOR, 2SC3326B
Q819	23114433	TRANSISTOR, 2SC1815-Y
Q820	23906125	IC, PQ30RV11
Q820B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q823	23114459	TRANSISTOR, RN1205
Q824	23114459	TRANSISTOR, RN1205
Q825	23114461	TRANSISTOR, RN1203
Q829	23000601	IC, SI-8090SS
Q829B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q835	23009271	IC, NJM2367
Q835B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q870	23000806	IC, SI-8033SS
Q870B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q880	23905977	IC, PQ09RD11
Q880B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q890	23314141	TRANSISTOR, 2SC3852
Q890B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q891	23114459	TRANSISTOR, RN1205
Q922	70129444	IC, PST994D
Q3301	23906164	IC, TA75S393F
Q3302	23205014	TRANSISTOR, 2SC4667-O
Q4701	23906335	IC, TA1270AF(J)
Q4702	23314289	TRANSISTOR, 2SA1586-Y
Q4703	23314289	TRANSISTOR, 2SA1586-Y
QB01	23314475	TRANSISTOR, 2SC2712-Y
QB44	23205112	TRANSISTOR, 2SA1980UF-Y
QB45	23314993	TRANSISTOR, 2SC4081 Q
QB46	23205112	TRANSISTOR, 2SA1980UF-Y
QB47	23314993	TRANSISTOR, 2SC4081 Q
QB51	23319808	IC, M5218AP
QB52	23314475	TRANSISTOR, 2SC2712-Y
QB53	23314994	TRANSISTOR, 2SA1576A106
QB54	23314994	TRANSISTOR, 2SA1576A106
QE50	23009271	IC, NJM2367
QE50B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
QE90	23906125	IC, PQ30RV11
QE90B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
QE95	23906125	IC, PQ30RV11
QE95B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
QS03	23314993	TRANSISTOR, 2SC4081 Q
QS04	23314993	TRANSISTOR, 2SC4081 Q
QS05	23009613	IC, CD4052BNSR
QS06	23009613	IC, CD4052BNSR
QS07	70114396	TRANSISTOR, 2SC3326B
QS08	70114396	TRANSISTOR, 2SC3326B
QS09	23114493	TRANSISTOR, RN2404
QS10	23904896	IC, JLC1562BF
QS11	23114499	TRANSISTOR, RN1404
QS12	23114499	TRANSISTOR, RN1404
QS13	23114499	TRANSISTOR, RN1404

Location No.	Parts No.	Description
QS14	23114499	TRANSISTOR, RN1404
QS15	23314993	TRANSISTOR, 2SC4081 Q
QS16	23114493	TRANSISTOR, RN2404
QS17	70114396	TRANSISTOR, 2SC3326B
QS18	70114396	TRANSISTOR, 2SC3326B
QS102	23318820	IC, OPE AMP, BA10358F
QV01	23906887	IC, CXA2069Q
QV04	23314993	TRANSISTOR, 2SC4081 Q
QV06	23314994	TRANSISTOR, 2SA1576A106
QV09	23314994	TRANSISTOR, 2SA1576A106
QV12	23009418	IC, 2IN-1OUTSW DRIVERMM1505XNRE
QV13	23314993	TRANSISTOR, 2SC4081 Q
QV70	23314993	TRANSISTOR, 2SC4081 Q
QV71	23314993	TRANSISTOR, 2SC4081 Q
QV72	23314994	TRANSISTOR, 2SA1576A106
QV73	23314994	TRANSISTOR, 2SA1576A106
QV246	23205045	TRANSISTOR, 2SA1037AKQ
QV247	23314204	TRANSISTOR, 2SC2412K, Q
QV248	23205045	TRANSISTOR, 2SA1037AKQ
QV249	23314204	TRANSISTOR, 2SC2412K, Q
QV254	23000360	IC, MM1519XQ
QY100	23906515	IC, TC90A45F
QY101	23314993	TRANSISTOR, 2SC4081 Q
QY102	23314993	TRANSISTOR, 2SC4081 Q
QY103	23314994	TRANSISTOR, 2SA1576A106
QY501	23000812	IC, TA1340F
QY502	23205014	TRANSISTOR, 2SC4667-O
QY503	23314994	TRANSISTOR, 2SA1576A106
QY504	23314994	TRANSISTOR, 2SA1576A106
QY507	23314993	TRANSISTOR, 2SC4081 Q
QY508	23314993	TRANSISTOR, 2SC4081 Q
QY509	23314993	TRANSISTOR, 2SC4081 Q
QY511	23314994	TRANSISTOR, 2SA1576A106
QY512	23314994	TRANSISTOR, 2SA1576A106
QY513	23314994	TRANSISTOR, 2SA1576A106
QY514	23314994	TRANSISTOR, 2SA1576A106
QY515	23314994	TRANSISTOR, 2SA1576A106
QY516	23314994	TRANSISTOR, 2SA1576A106
QY518	23314993	TRANSISTOR, 2SC4081 Q
QY520	23314993	TRANSISTOR, 2SC4081 Q
D607	23316628	DIODE, ZENER, MA8330-M, TX
D608	23316591	DIODE, ZENER, MA8100-M
D611	23316231	DIODE, 1SS355
D612	23316231	DIODE, 1SS355
D613	23316231	DIODE, 1SS355
D614	23316231	DIODE, 1SS355
D615	23316231	DIODE, 1SS355
D616	23316231	DIODE, 1SS355
D617	23316231	DIODE, 1SS355
D640	23316231	DIODE, 1SS355
D641	23316231	DIODE, 1SS355
D670	23316231	DIODE, 1SS355
D671	23316231	DIODE, 1SS355
D672	23316231	DIODE, 1SS355
D673	23316231	DIODE, 1SS355
D674	23316231	DIODE, 1SS355
D675	23316231	DIODE, 1SS355
D819	23316454	SCR, SF0R3G42NG5H
D829	23118213	DIODE, RK44,
D832	23316715	DIODE, ZENER, MTZJ11A
D833	23118859	DIODE, 1SS133
D835	23316637	DIODE, SCHOTTKY, FMB-G14L
D835B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
D835C	23960136	ADHESIVE, SILICONE, TSE3843-W
D844	23118859	DIODE, 1SS133

Location No.	Parts No.	Description
D846	23316782	DIODE, ZENER, MTZJ6.2C
D870	23316637	DIODE, SCHOTTKY, FMB-G14L
D870B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
D870C	23960136	ADHESIVE, SILICONE, TSE3843-W
D872	23316664	DIODE, ZENER, MTZJ4.3C
D873	23118859	DIODE, 1SS133
D891	23118859	DIODE, 1SS133
D892	23118859	DIODE, 1SS133
DB01	23358564	DIODE, LED, SLR-56VC3FPQ
DB03	23358522	DIODE, LED, SIR-56SB3F
DB51	23358573	PHOTO DIODE, PIN 940NMHPI-2FER4
DB52	23118041	DIODE, MA111
DB54	23118041	DIODE, MA111
DB76	23118041	DIODE, MA111
DE50	23118213	DIODE, RK44,
DE52	23316681	DIODE, ZENER, MTZJ7.5B
DE53	23118859	DIODE, 1SS133
DE99	23118096	DIODE, RK34
DS102	23316571	DIODE, ZENER, MA8056-M
DV02	23316587	DIODE, ZENER, MA8091-L
DV03	23316587	DIODE, ZENER, MA8091-L
DV05	23316587	DIODE, ZENER, MA8091-L
DV07	23357169	DIODE, ZENER, UDZS6.8B
DV10	23316587	DIODE, ZENER, MA8091-L
DV11	23316587	DIODE, ZENER, MA8091-L
DV14	23357169	DIODE, ZENER, UDZS6.8B
DV19	23316587	DIODE, ZENER, MA8091-L
DV21	23357169	DIODE, ZENER, UDZS6.8B
DV241	23316587	DIODE, ZENER, MA8091-L
DV242	23316587	DIODE, ZENER, MA8091-L
DV243	23316587	DIODE, ZENER, MA8091-L
DV244	23316587	DIODE, ZENER, MA8091-L
DV249	23316587	DIODE, ZENER, MA8091-L
DV250	23316587	DIODE, ZENER, MA8091-L
DV251	23316577	DIODE, ZENER, MA8068-M
DV252	23316577	DIODE, ZENER, MA8068-M
DV256	23316587	DIODE, ZENER, MA8091-L
DV257	23316587	DIODE, ZENER, MA8091-L
DV258	23316587	DIODE, ZENER, MA8091-L
MISCELLANEOUS		
⚠ B001	23301537	PDP MODULE, S42AX-XB01
⚠ B001A	23405283	OPTICAL FILTER, PDP42HDMESH MCI TSM42-01
⚠ B001A	23405284	OPTICAL FILTER, PDP42HDAGC PDP42HD***
BZ01A	23960136	ADHESIVE, SILICONE, TSE3843-W
GJ113	24000445	CHIP JUMPER, 1608TYPE
GJ128	24000445	CHIP JUMPER, 1608TYPE
GJ471	24000445	CHIP JUMPER, 1608TYPE
GJ472	24000445	CHIP JUMPER, 1608TYPE
GR01	24000445	CHIP JUMPER, 1608TYPE
GR02	24000445	CHIP JUMPER, 1608TYPE
GR03	24000445	CHIP JUMPER, 1608TYPE
GR04	24000445	CHIP JUMPER, 1608TYPE
GR24	24000445	CHIP JUMPER, 1608TYPE
GR25	24000445	CHIP JUMPER, 1608TYPE
GR26	24000445	CHIP JUMPER, 1608TYPE
GR91	24000445	CHIP JUMPER, 1608TYPE
GR96	24000445	CHIP JUMPER, 1608TYPE
GR105	24000445	CHIP JUMPER, 1608TYPE
GR605	24000445	CHIP JUMPER, 1608TYPE
GR621	24000445	CHIP JUMPER, 1608TYPE
GR622	24000445	CHIP JUMPER, 1608TYPE
GR623	24000445	CHIP JUMPER, 1608TYPE
GRS05	24000445	CHIP JUMPER, 1608TYPE
GRS06	24000445	CHIP JUMPER, 1608TYPE

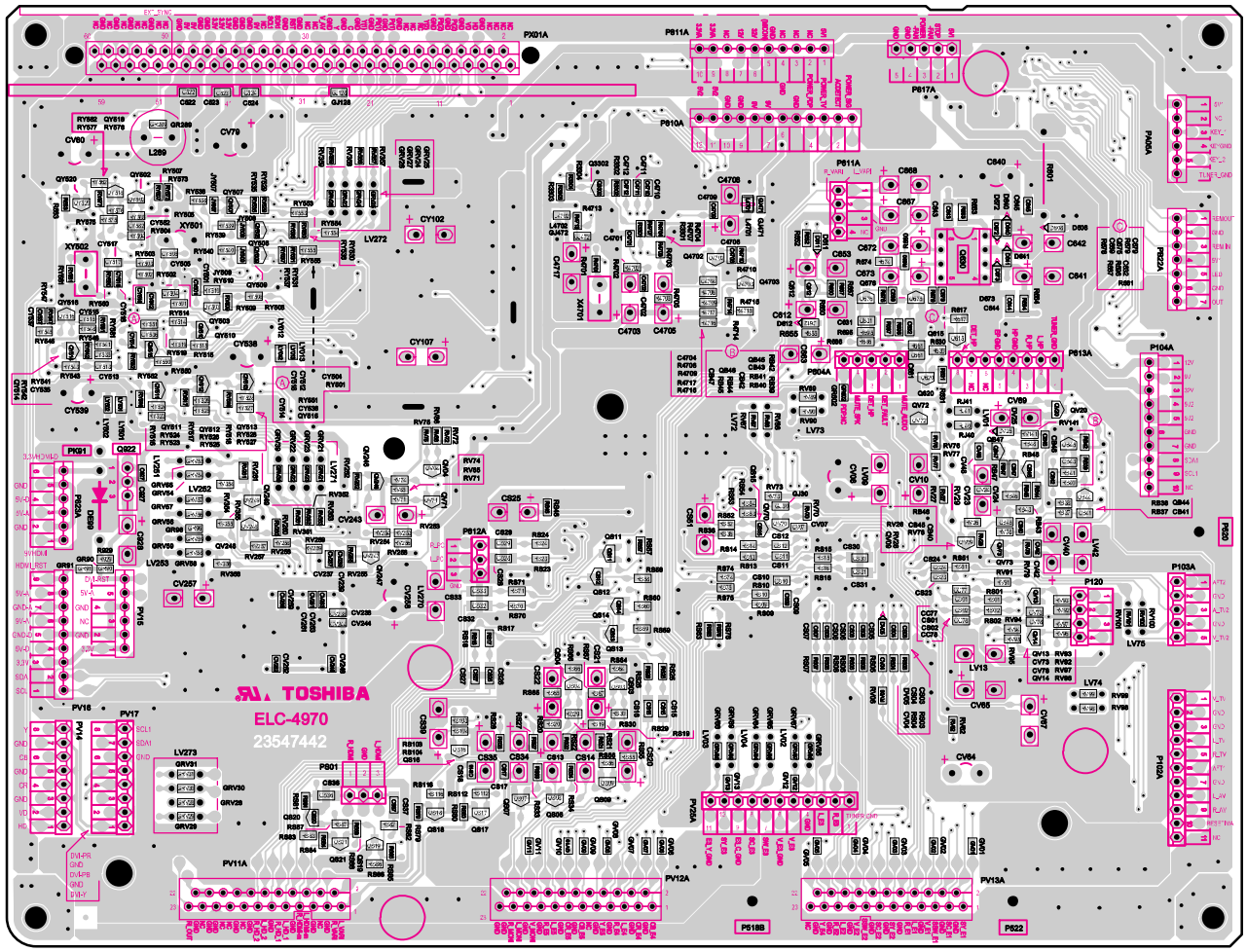
Location No.	Parts No.	Description
GRV12	24000445	CHIP JUMPER, 1608TYPE
GRV13	24000445	CHIP JUMPER, 1608TYPE
GRV14	24000445	CHIP JUMPER, 1608TYPE
GRV15	24000445	CHIP JUMPER, 1608TYPE
GRV21	24000445	CHIP JUMPER, 1608TYPE
GRV22	24000445	CHIP JUMPER, 1608TYPE
GRV23	24000445	CHIP JUMPER, 1608TYPE
GRV39	24000445	CHIP JUMPER, 1608TYPE
GRV54	24000445	CHIP JUMPER, 1608TYPE
GRV55	24000445	CHIP JUMPER, 1608TYPE
GRV56	24000445	CHIP JUMPER, 1608TYPE
GRV57	24000445	CHIP JUMPER, 1608TYPE
GRV58	24000445	CHIP JUMPER, 1608TYPE
GRV59	24000445	CHIP JUMPER, 1608TYPE
GV01	23103828	INDUCTOR, BEAD, TEM2121M
GV02	23103828	INDUCTOR, BEAD, TEM2121M
GV03	23103828	INDUCTOR, BEAD, TEM2121M
GV04	23103828	INDUCTOR, BEAD, TEM2121M
GV05	23103828	INDUCTOR, BEAD, TEM2121M
GV06	23103828	INDUCTOR, BEAD, TEM2121M
GV07	23103828	INDUCTOR, BEAD, TEM2121M
GV08	23103828	INDUCTOR, BEAD, TEM2121M
GV09	23103828	INDUCTOR, BEAD, TEM2121M
GV10	23103828	INDUCTOR, BEAD, TEM2121M
GV11	23103828	INDUCTOR, BEAD, TEM2121M
GV12	23103828	INDUCTOR, BEAD, TEM2121M
GV13	23103828	INDUCTOR, BEAD, TEM2121M
H002	23148043	IF MODULE, US WOW MSP3441G VDS MVUS52
H003	23124093	ANTENNA SWITCH, 2I3O BUNPAI US RSU135X2
H003A	23740989	NUT, F-CONNECTOR 2H BS
KB01	23000852	IC, REMOTE PHOTO RECEIVER, PIC-37043TE2
MZ01	23368845	CABLE, LVDS 31P 360MM23368845
P102A	23367071	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B11B-EH-F1A
P102B	23367071	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B11B-EH-F1A
P103A	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P103B	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P104A	23367070	PLUG , NP 2.5MM G JST-EHB10B-EH-F1A
P104B	23367070	PLUG , NP 2.5MM G JST-EHB10B-EH-F1A
P105	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
P601	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P604A	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P604B	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P610A	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P610B	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P611A	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P611B	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P613A	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
P613B	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
P661	23365500	EARPHON JACK
⚠ P801	23372249	POWER CORD, LU/CSA 2MPDP UL
P807A	23367073	CONNECTOR, PLUG 13P
P808A	23368581	CONNECTOR, PLUG 7P, 2.5MM G JST-EH B7B-EH-F1-TV4
P809A	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
P810A	23367072	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B12B-EH-F1A
P810B	23367072	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B12B-EH-F1A
P811A	23367070	PLUG , NP 2.5MM G JST-EHB10B-EH-F1A
P811B	23367070	PLUG , NP 2.5MM G JST-EHB10B-EH-F1A
P816A	23367073	CONNECTOR, PLUG 13P
P817A	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P817B	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
P818	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
P819	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
P823A	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
P823B	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
PA05A	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4

Location No.	Parts No.	Description
PB22A	23368581	CONNECTOR, PLUG 7P, 2.5MM G JST-EH B7B-EH-F1-TV4
PP02	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
PP04	23974994	BAND, KESSOKU
PR80	23365432	EARPHONE JACK
⚠ PV01	23023132	JACK, PIN 2S6P SMK LAP5030-0111GC
⚠ PV02	23023087	JACK, PIN 7P SMKLAP5030-0203G
⚠ PV03	23023024	JACK, PIN 5P SMKLAP5030-0201G
⚠ PV05	23023133	JACK, PIN 5P SMK LAP50300206GC
PV17	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
PV25A	23367071	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B11B-EH-F1A
PV25B	23367071	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B11B-EH-F1A
⚠ PV60	23365819	JACK, 1S3P
PX01	23903176	SOCKET, 60P TKD, 136901160W4
PX01A	23903176	SOCKET, 60P TKD, 136901160W4
PY02	23148075	SCAN CONVERTER MODUL, G.HYPER MVPU43
SA01	23145430	SWITCH, PUSH, SKHHLMA010
SA02	23145430	SWITCH, PUSH, SKHHLMA010
SA03	23145430	SWITCH, PUSH, SKHHLMA010
SA04	23145430	SWITCH, PUSH, SKHHLMA010
SA05	23145430	SWITCH, PUSH, SKHHLMA010
SA06	23145430	SWITCH, PUSH, SKHHLMA010
SA07	23145430	SWITCH, PUSH, SKHHLMA010
∨ UF01	23125910	FAN MOTOR, FBL08A12LFBL08A12L
W661	23351217	SPEAKER, SPK1439AF, 70X130 16-OHM 8W
W662	23351218	SPEAKER, SPK1440AF, TWC32X32 8-OHM 10W
X4701	23153721	CERAMIC RESONATOR
XY501	23153961	CRYSTAL, 3.58MHZ
XY502	23153721	CERAMIC RESONATOR
⚠ ZA01	23103778	FERRITE CORE, TFE1008
⚠ ZA02	23103839	FERRITE CORE, TFE1012
⚠ ZA03	23103840	FERRITE CORE, TFE1013
PC BOARD ASSEMBLIES		
∨ **U001A**	75000547	PC BOARD ASSY, PD1357A1, SIGNAL
∨ **U001B**	75000548	PC BOARD ASSY, PD1357A2, TN/IMA
∨ **U001C**	75000549	PC BOARD ASSY, PD1357A3, IR-PASSTHROUGH
∨ **U002**	75000550	PC BOARD ASSY, PD1358A1, BACK AV
∨ **U003**	75000545	PC BOARD ASSY, PD1339B1, LOWB1
∨ **U004**	75000546	PC BOARD ASSY, PD1340B1, LOWB2
∨ **U005**	75000551	PC BOARD ASSY, PD1359A1, A-OUT
∨ **U006A**	75000552	PC BOARD ASSY, PD1360A1, FRONT/AV
∨ **U006B**	75000553	PC BOARD ASSY, PD1360A2, KEY SW
∨ **U006C**	75000554	PC BOARD ASSY, PD1360A3, OSD/MICON
∨ **U006D**	75000555	PC BOARD ASSY, PD1360A4, POWER SW
∨ **U006E**	75000556	PC BOARD ASSY, PD1360A5, CON G-HYPER
∨ **U800**	23122442	POWER UNIT, SWITCHING MAIN, PTF-424
∨ **U801**	23122448	POWER UNIT, SWITCHING SUB, PTF-424A
TUNER		
⚠ H001	23321460	TUNER, US181CH IIC FONO5V ELA52LX2
⚠ HY01	23321445	TUNER, TIF US IIC PH 181CH MONO EL973L
ACCESSORIES		
K902	23306504	REMOCON HAND UNIT IR, CTVUSA CT-90164
K903	23306465	REMOCON HAND UNIT, IR BLAST VTR CONT
⚠ Y101	23566133	OWNERS MANUAL, ENG/FRE/SPA, 42HP83
Y109	23945015	BAG, POLYETHYLENE COVER250X400
Y170	23845800	WIRE HOLDER, NYLON66 D6.8
Y180	23542012	MC CLOTH, MC24-TDM-1P
CABINET PARTS		
⚠ A201	23532139	BEZEL, 42HP83
A205	23433251	DECORATIVE, GLASS SIDE
A207	23929028	PIECE, CONTROL BOX, KEYREAR
A208	23929067	PIECE, CONT BOX KEY FRONT ASSY 42HP83

Location No.	Parts No.	Description
A210	23929044	PIECE, CONTROL BOX, KEYCOVER
A211	23929031	PIECE, CONTROL BOX, AV REAR
A212	23929068	PIECE, CONT BOX AV FRONTASSY 42HP83
A213	23929046	PIECE, CONTROL BOX, AV COVER
A401	23532074	BACK COVER
A406	23950113	LABEL, SERIAL NUMBER, TTX3
A407	23845800	WIRE HOLDER, NYLON66 D6.8
A509	23035412	SCREW
A512	23035412	SCREW
A514	23035412	SCREW
A515	23035312	SCREW
A520	23037312	SCREW
A521	23035412	SCREW
A522	23035412	SCREW
A524	23035412	SCREW
A528	72471064	SCREW, BIDT2 3*10BZ
A531	23035004	SCREW
A532	23035412	SCREW
A535	72471064	SCREW, BIDT2 3*10BZ
A536	23037312	SCREW
A537	23035412	SCREW
A540	23035412	SCREW
A541	23712306	SCREW
A701A	23067383	CARTON BOX, TOP, 42HP83
A701B	23067365	CARTON, BOTTOM CASE
A702	23946565	PACKING, TOP/BOTTOM
A703	23945174	BAG, PROTECTIVE
A705	23518043	PACKING, JOINT
E001	23072503	SCALER BLOCK94TBGSUF010M
E003	23148090	MODULE, 03DVI PD0647C

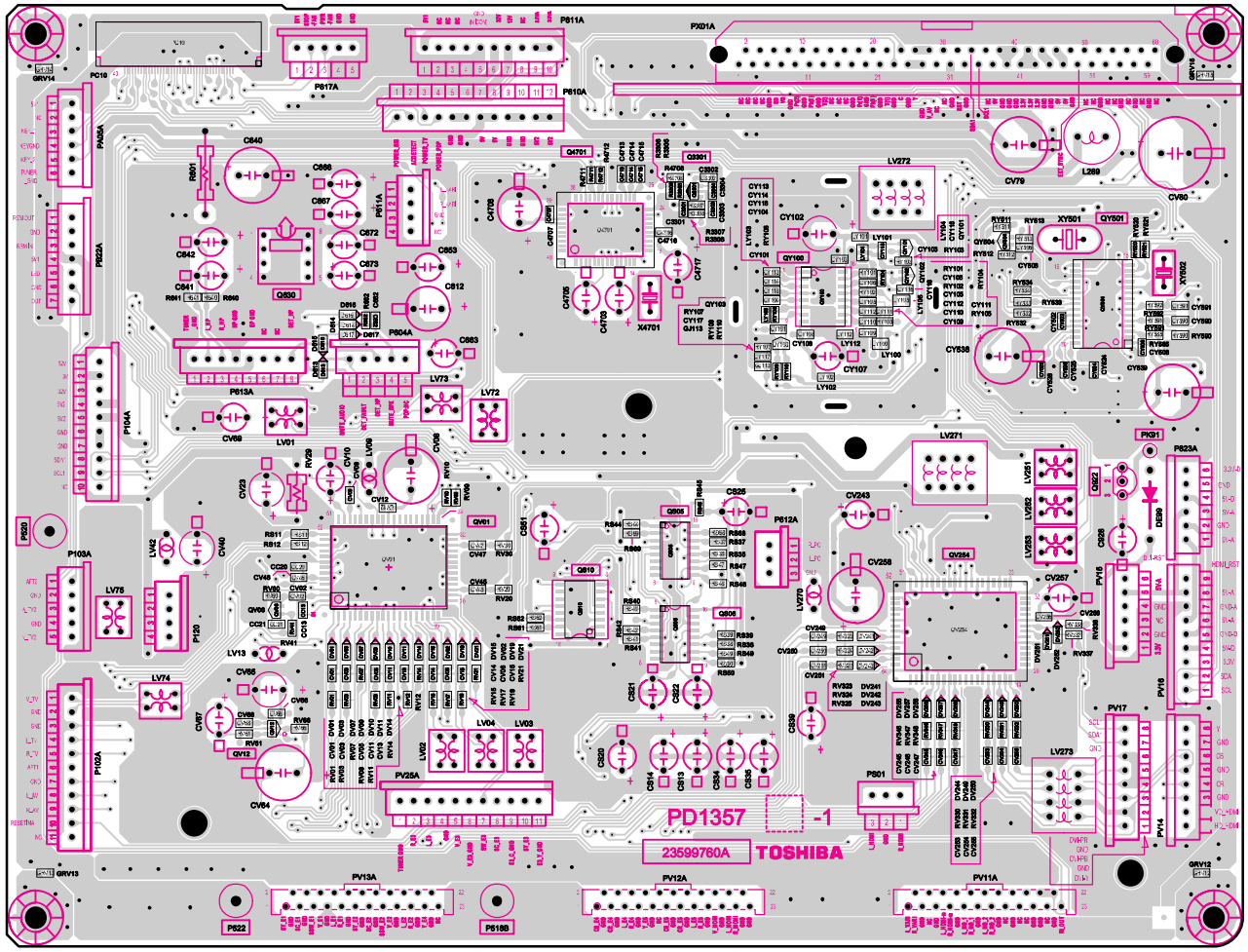
SIGNAL BOARD PD1357-1

BOTTOM (FOIL) SIDE



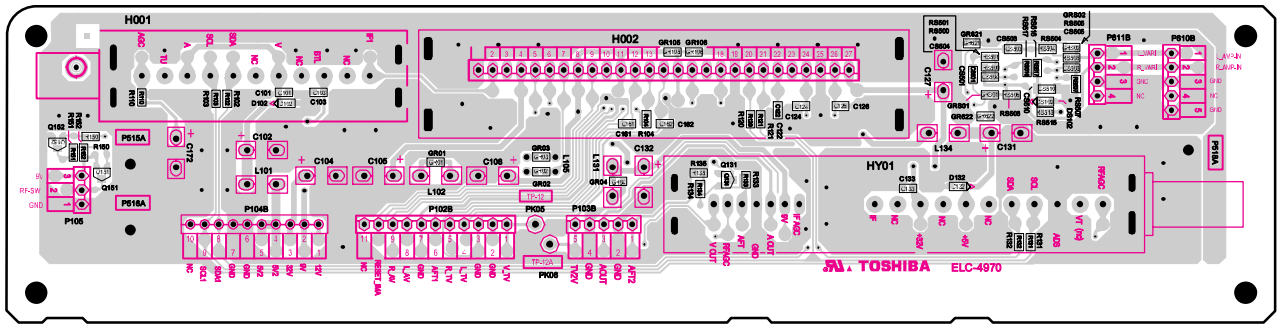
SIGNAL BOARD PD1357-1

TOP (COMPONENT) SIDE

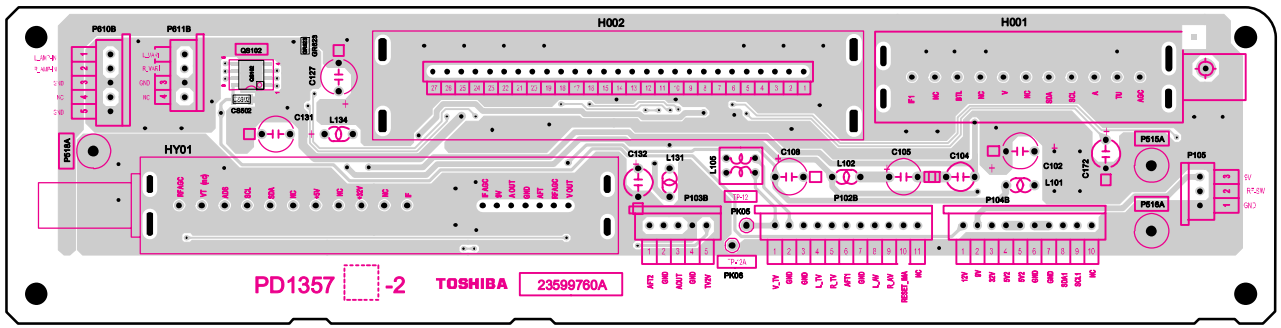


TN / IMA BOARD PD1357-2

BOTTOM (FOIL) SIDE

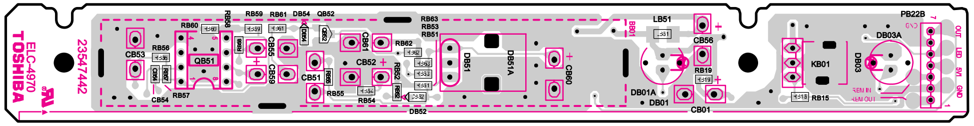


TOP (COMPONENT) SIDE



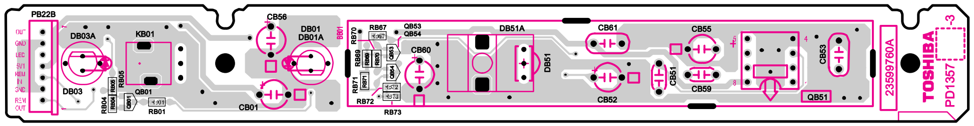
IR-PASSTHROUGH BOARD PD1357-3

BOTTOM (FOIL) SIDE



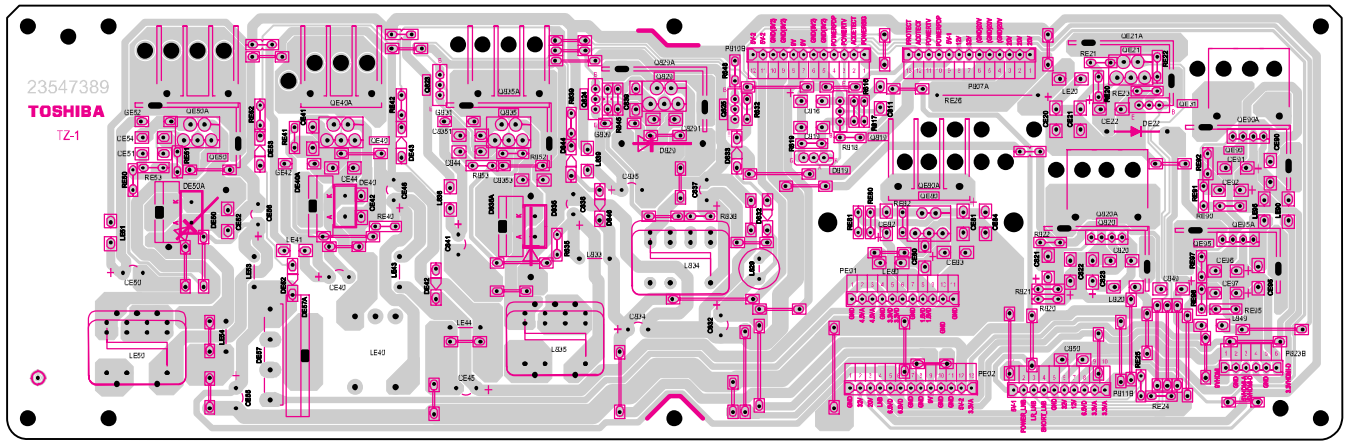
TOSHIBA
ELC-4970
23547442
CB53
RB56
CB54
RB57
RB60
RB58
QB51
RB59
RB61
DB54
QB52
CB55
CB59
CB51
RB55
RB54
CB61
CB52
RB62
RB52
RB63
RB53
RB51
DB52
DB51
DB51A
CB60
BB01
LB51
CB56
RB19
DB01A
DB01
CB01
KB01
RB15
DB03
DB03A
PB22B
GND
OUT
LED
5V1
REM IN
REM OUT

TOP (COMPONENT) SIDE

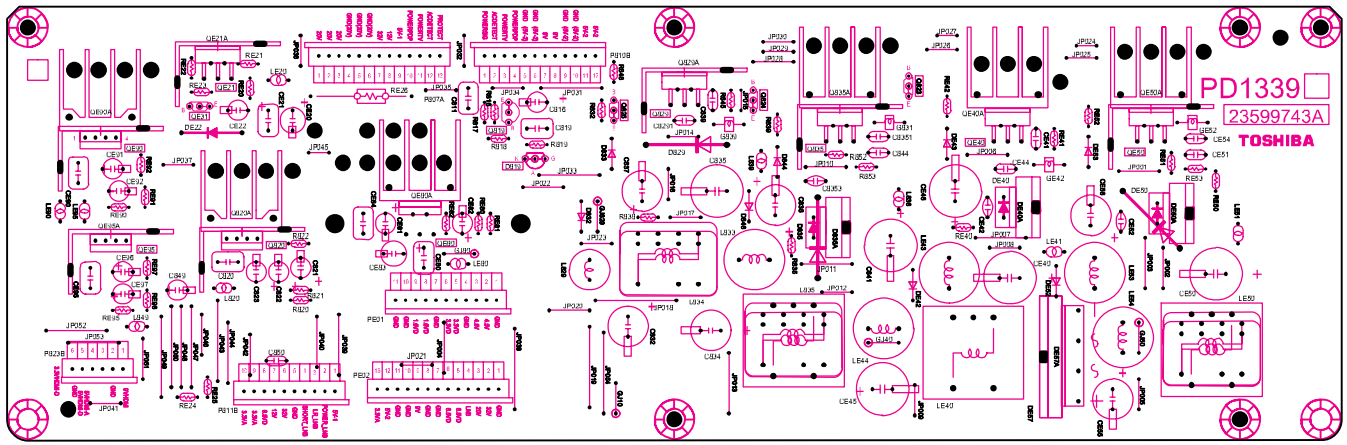


LOWB1 BOARD PD1339

BOTTOM (FOIL) SIDE

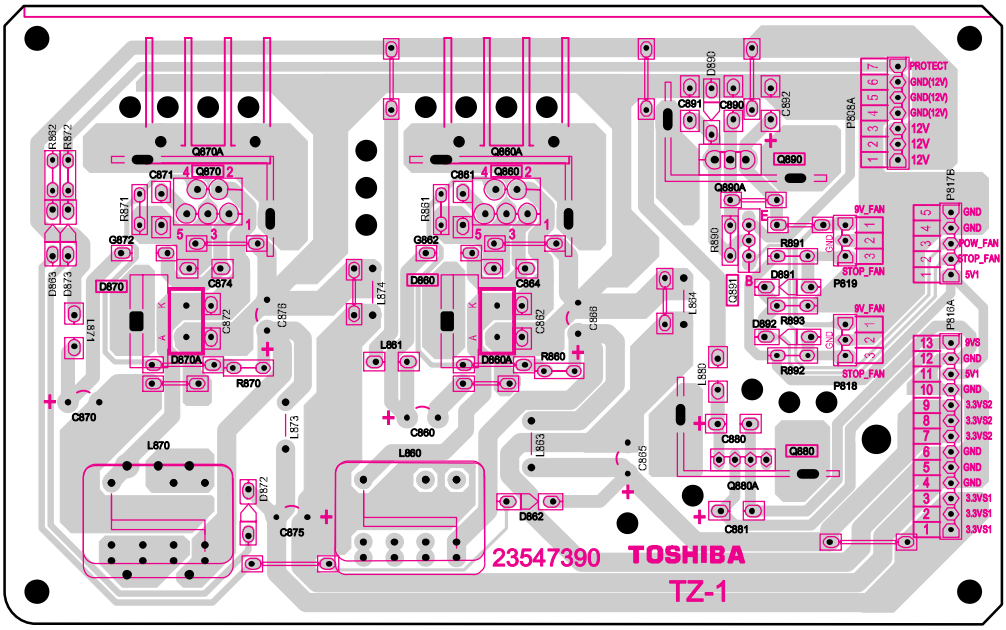


TOP (COMPONENT) SIDE

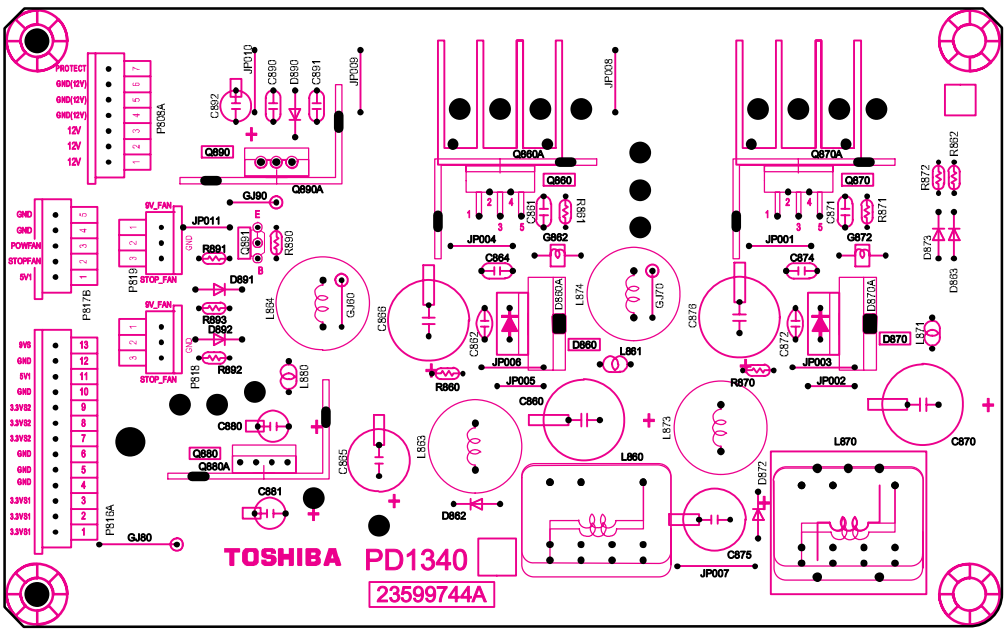


LOWB2 BOARD PD1340

BOTTOM (FOIL) SIDE

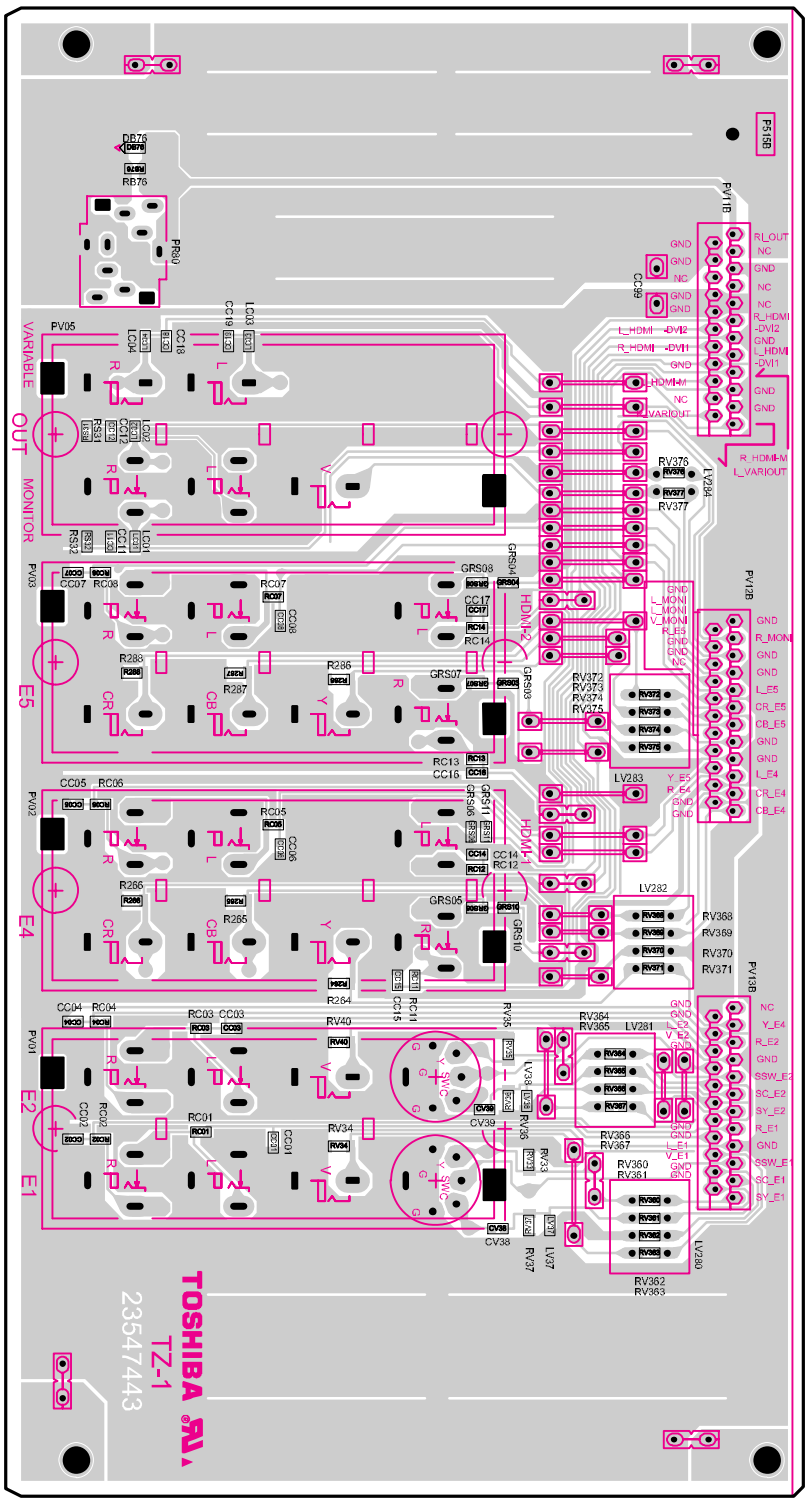


TOP (COMPONENT) SIDE



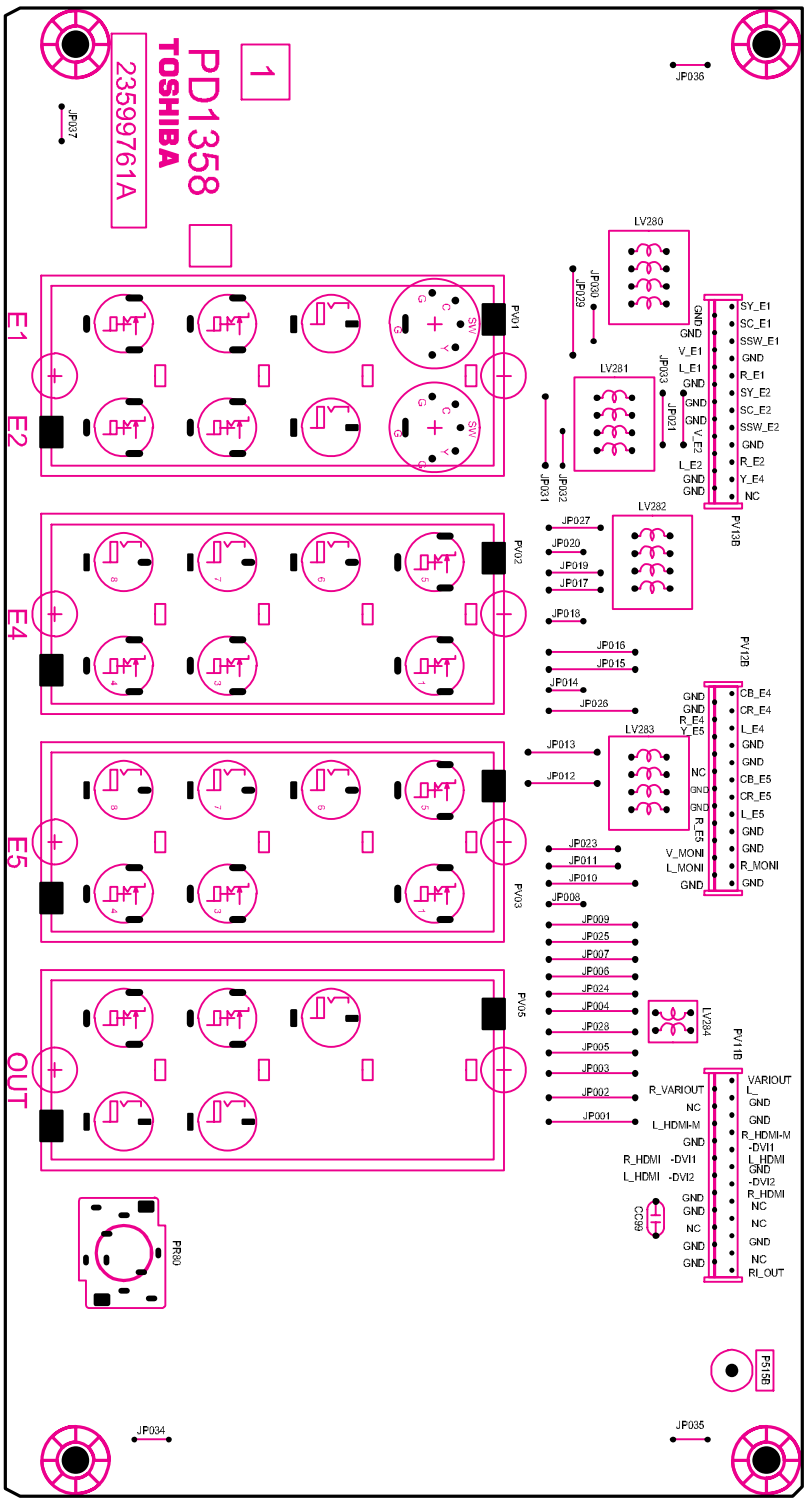
BACK/AV BOARD PD1358

BOTTOM (FOIL) SIDE



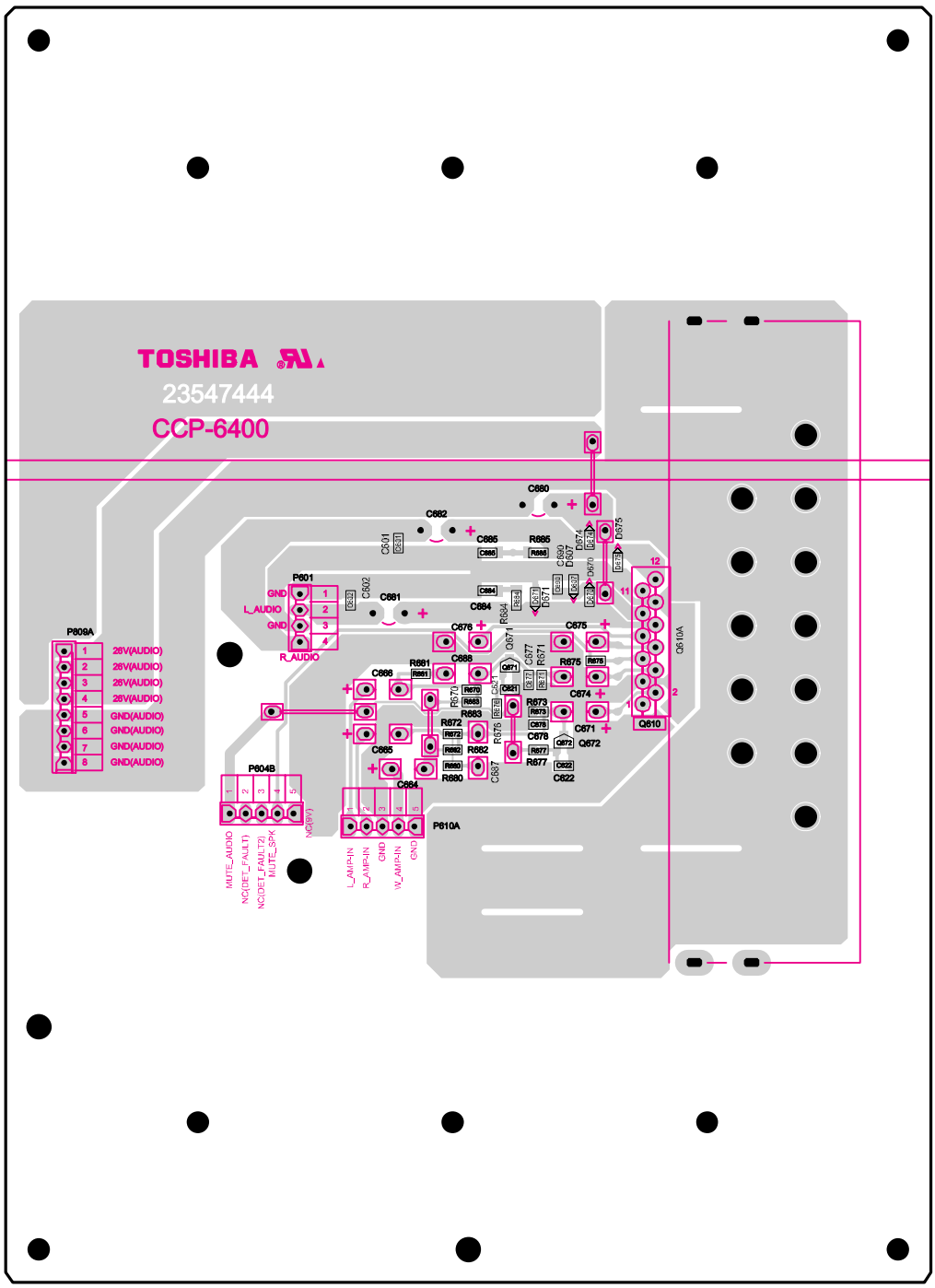
BACK/AV BOARD PD1358

TOP (COMPONENT) SIDE



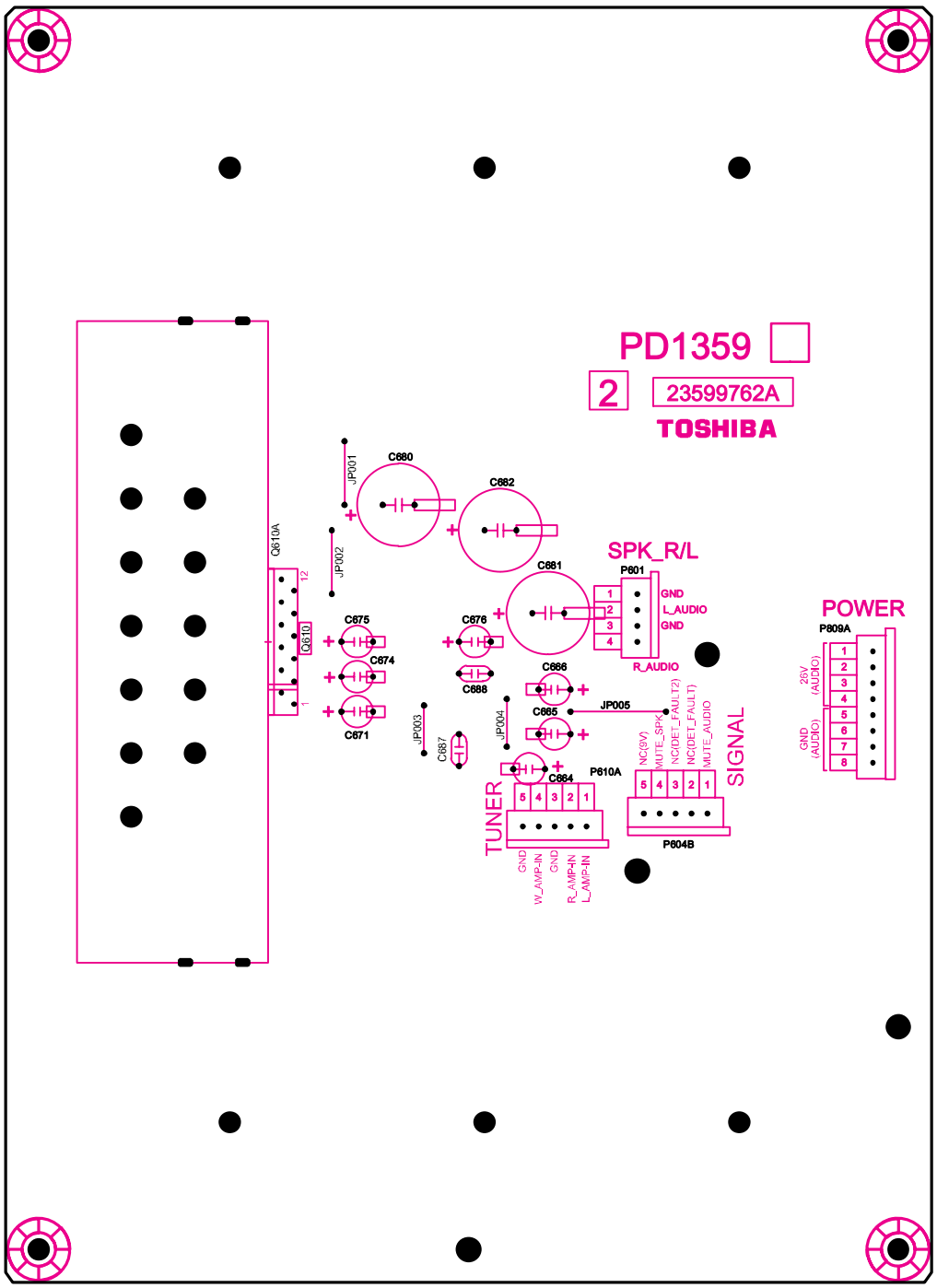
A-OUT BOARD PD1359

BOTTOM (FOIL) SIDE



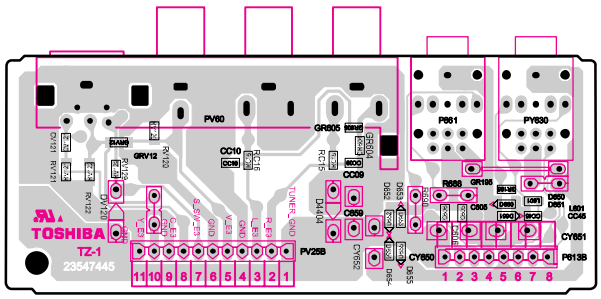
A-OUT BOARD PD1359

TOP (COMPONENT) SIDE

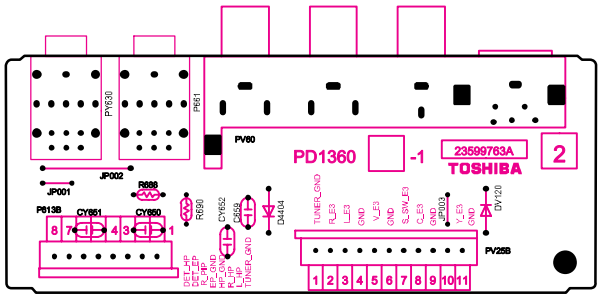


FRONT/AV BOARD PD1360-1

BOTTOM (FOIL) SIDE

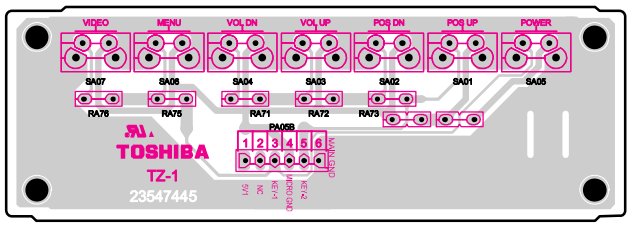


TOP (COMPONENT) SIDE

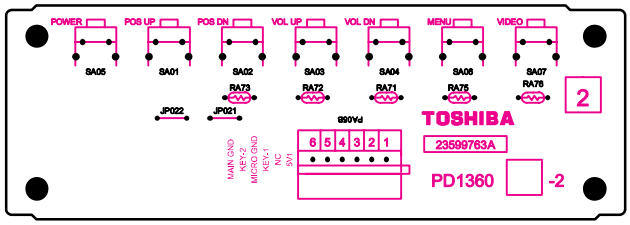


KEY BOARD PD1360-2

BOTTOM (FOIL) SIDE

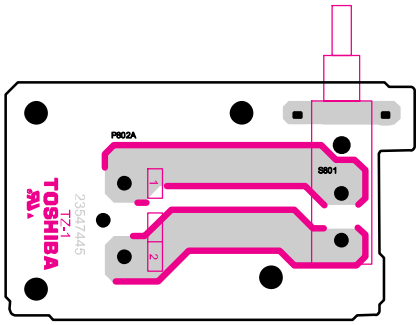


TOP (COMPONENT) SIDE

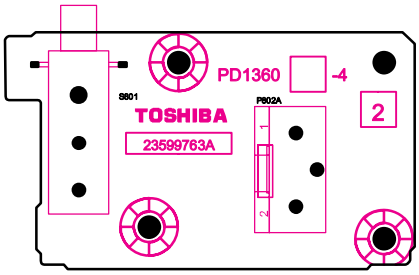


POW SW BOARD PD1360-4

BOTTOM (FOIL) SIDE

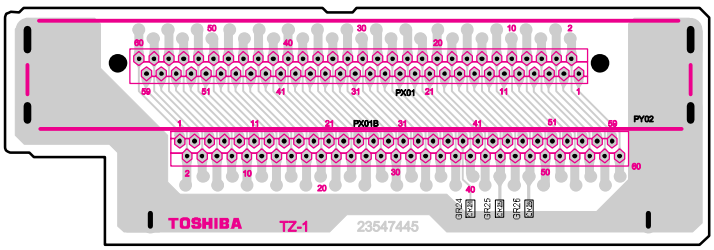


TOP (COMPONENT) SIDE

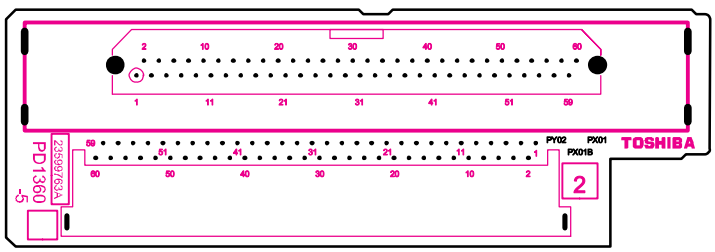


G-HYPER BOARD PD1360-5

BOTTOM (FOIL) SIDE



TOP (COMPONENT) SIDE



SPECIFICATIONS

Plasma Colour TV

Television System	NTSC standard	
Channel Coverage	VHF : 2 through 13 UHF : 14 through 69 Cable TV : Mid band (A-8 through A-1, A through I) Super band (J through W) Hyper band (AA through ZZ, AAA, BBB) Ultra band (65 through 94, 100 through 125)	
Power Source	110-240 V AC, 50/60 Hz (See page 7.)	
Power Consumption	301 W (average)	
Audio Power	10 W + 10 W	
Speaker Type	Main : Four 2-1/4 × 5-1/8 inches (70 × 130 mm) Tweeter : Two 1-1/4 inches (32 mm) round	
Video / Audio Terminals	S-VIDEO INPUT	Y : 1 V(p-p), 75 ohm, negative sync. C : 0.286 V(p-p) (burst signal), 75 ohm
	VIDEO / AUDIO INPUT	VIDEO : 1 V(p-p), 75 ohm, negative sync. AUDIO : 150 mV(rms) (30% modulation equivalent,47k ohm)
	ColorStream® (component video) INPUT	Y : 1V(p-p), 75 ohm P_R: 0.7 V(p-p), 75 ohm P_B: 0.7 V(p-p), 75 ohm AUDIO : 150 mV(rms), 47k ohm
	VIDEO/AUDIO OUTPUT	VIDEO : 1 V(p-p), 75 ohm, negative sync. AUDIO : 150 mV(rms) (30% modulation equivalent,4.7k ohm)
	VARIABLE AUDIO OUTPUT	0–300 mV(rms) (30% modulation equivalent, 4.7k ohm)
	DVI/HDCP INPUT	HDCP compliant E-EDID* 1.3 compliant DVI-D uncompressed, high-speed, digital single-link connection Suggested input scan rates: 1080i, 720p, 480p, 480i
	Headphones jack	3.5 mm stereo
TheaterLink	OUTPUT: 3 V(p-p), 10k ohm	
Dimensions	Width : 51-57/64 inches (1318 mm) Height : 27-15/32 inches (698 mm) Depth : 4-57/64 inches (124 mm)	
Mass (weight)	108.5 lbs (49.2 kg)	
Operating condition	Temperature : 32°F – 95°F (0°C – 35°C) Humidity : 20 – 80% (no moisture condensation)	

* E-EDID = Enhanced-Extended Display Identification

* This Plasma Display is for use only with the optional accessories mentioned here. Use with any other types of optional accessories may cause instability which could result in the possibility of injury.
If using the pedestal (optional accessory), leave a space of at least 10 cm at the top, left, and right, at least 6 cm at the bottom, and at least 7 cm at the rear. If using some other setting-up method, leave a space of at least 10 cm at the top, bottom, left and right, and at least 9 cm at the rear.

- Design and specifications are subject to change without notice.
- Never service or remodel the TV set by yourself. It may expose you to a fire hazard or dangerous voltage.

* Please refer to owner's manual in detail.

– END –

SCHEMATIC DIAGRAM

MODEL : 42HP83

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

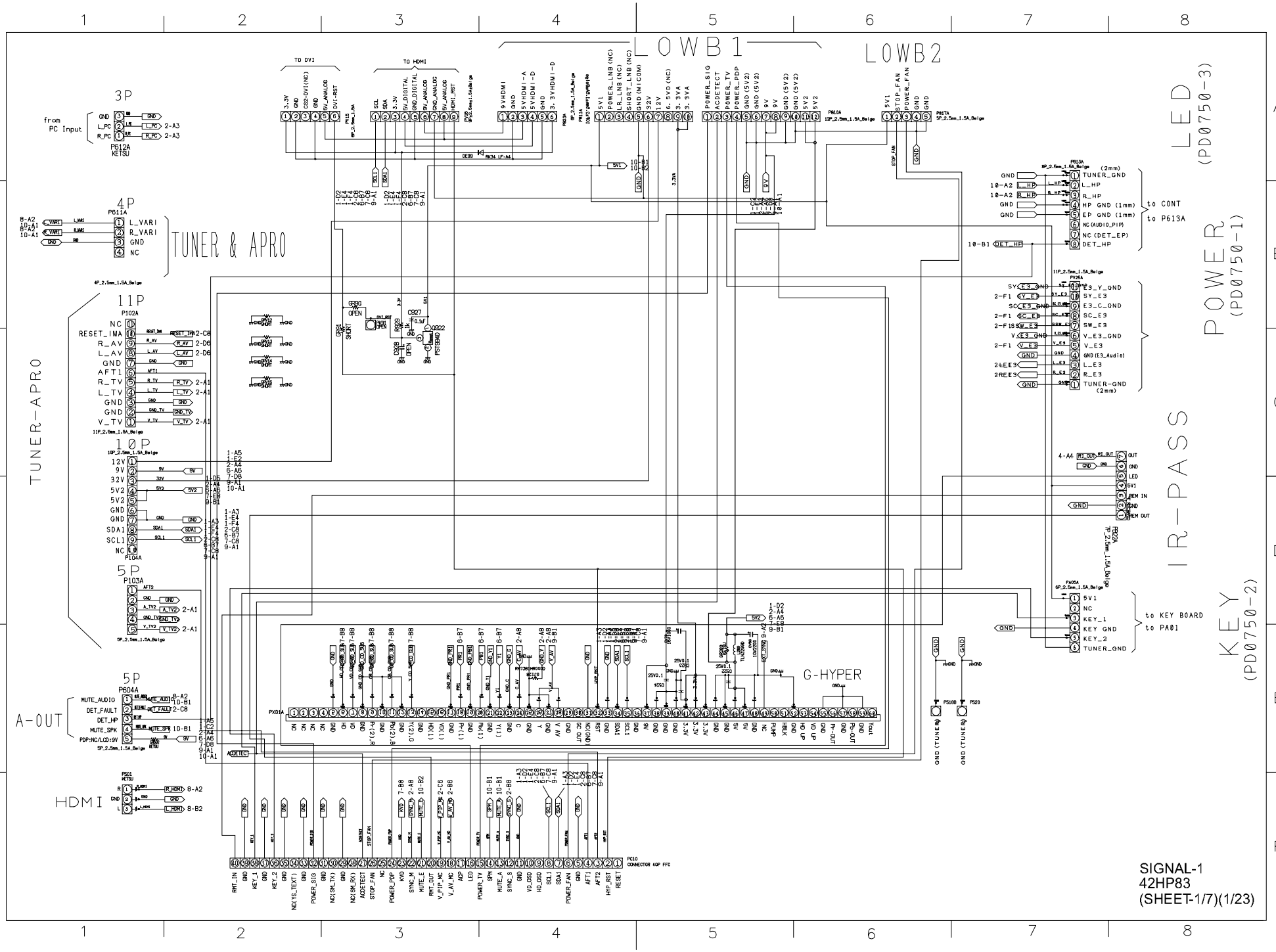
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

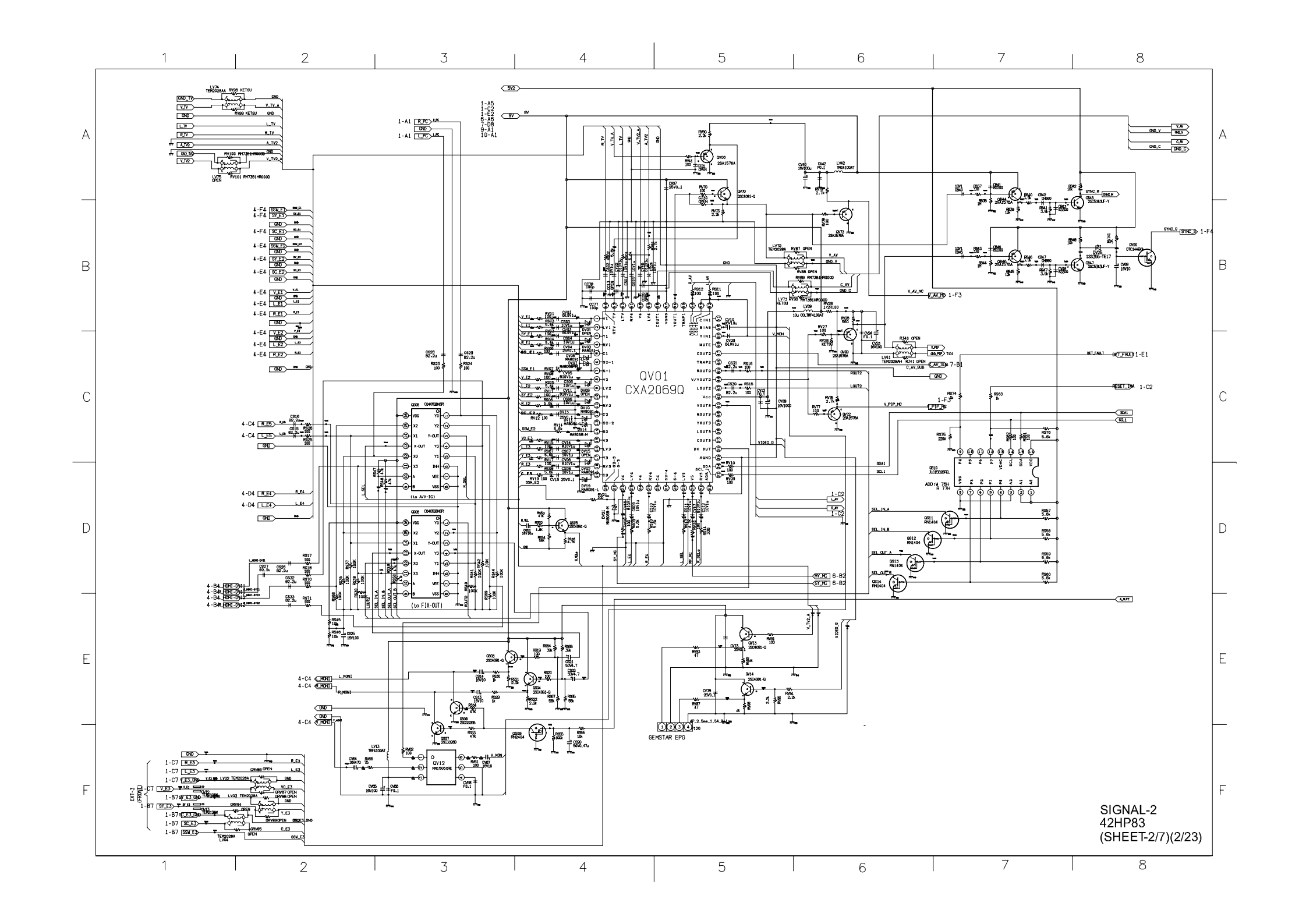
NOTE:

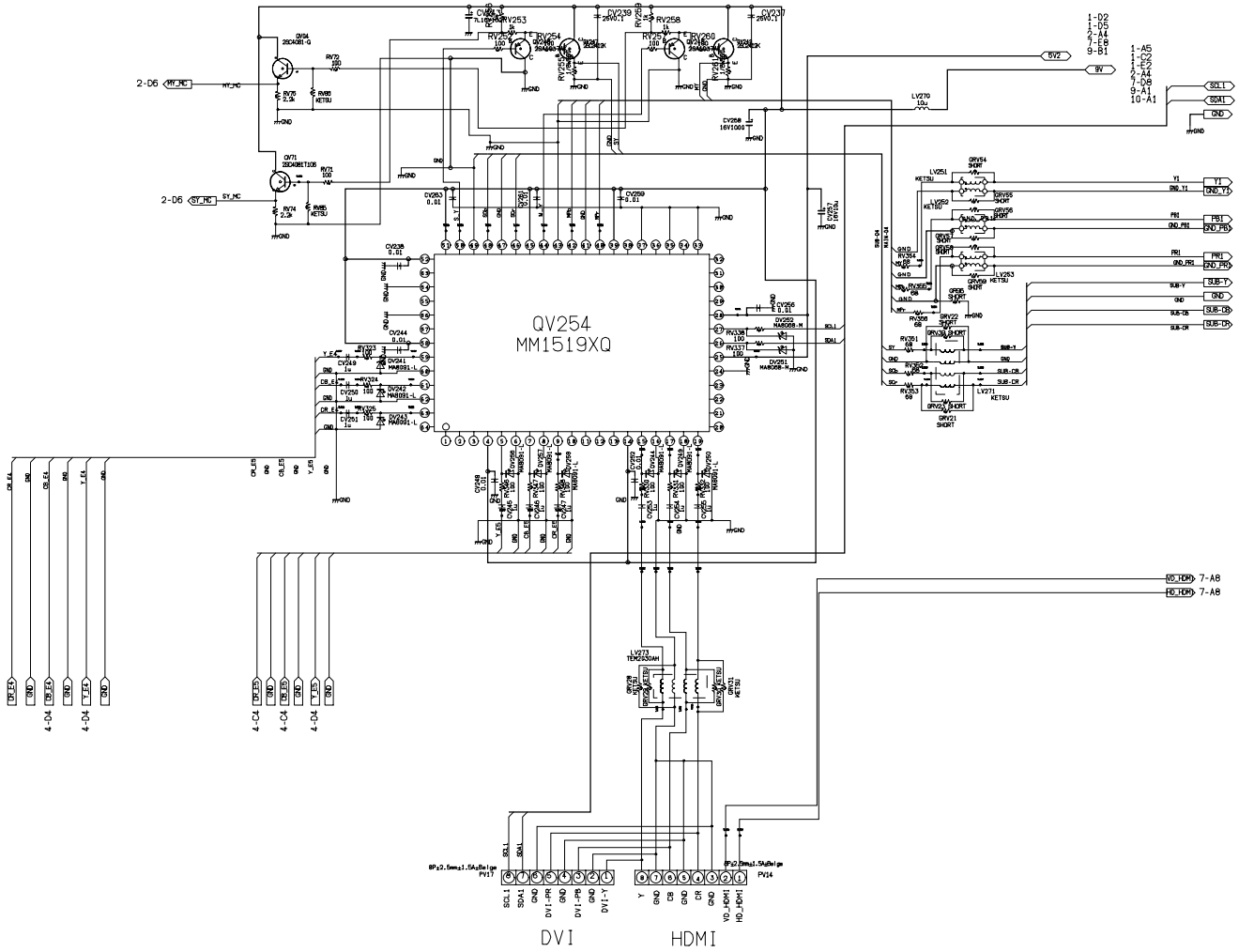
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —|+|— Electolytic capacitor —|M|— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary 20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

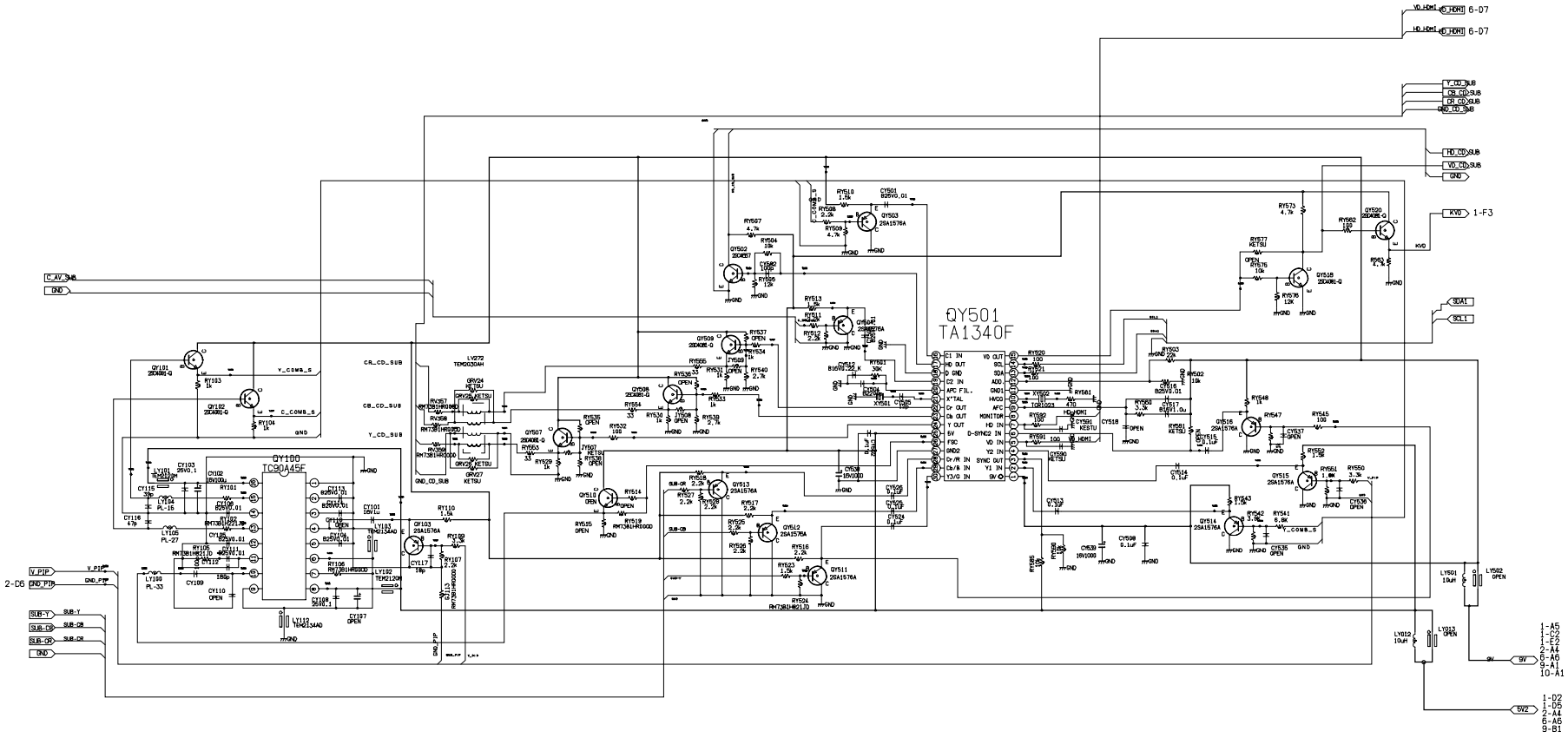
- SIGNAL
  - SIGNAL-1 [SHEET - 1/7] 1/23
  - SIGNAL-2 [SHEET - 2/7] 2/23
  - AV-2 [SHEET - 3/7] 3/23
  - AV-3 [SHEET - 4/7] 4/23
  - VARI-OUT, HDMI-MUTE [SHEET - 5/7] 5/23
  - SYNC OUT [SHEET - 6/7] 6/23
  - HP-AMP&MUTE [SHEET - 7/7] 7/23
- BACK / AV
  - BACK-AV-1 [SHEET - 1/3] 8/23
  - BACK-AV-2 [SHEET - 2/3] 9/23
  - AV-CONNECTOR [SHEET - 3/3] 10/23
- TN / IMA
  - TN / IMA [SHEET - 1/2] 11/23
  - AUDIO GAIN CORRCTION [SHEET - 2/2] 12/23
- SCALER
  - DIGITAL RGB [SHEET - 1/3] 13/23
  - MAICON OSD [SHEET - 2/3] 14/23
  - OSD HD [SHEET - 3/3] 15/23
- FRONT AV-1 ..... 16/23
- DVI MODULE 17/23
- G-HYPER 18/23
- A-OUT 19/23
- IR-PASSTHROUGH 20/23
- LOWB1 ..... 21/23
- LOWB2 ..... 22/23
- WIRING CONNECTION DIAGRAM 23/23

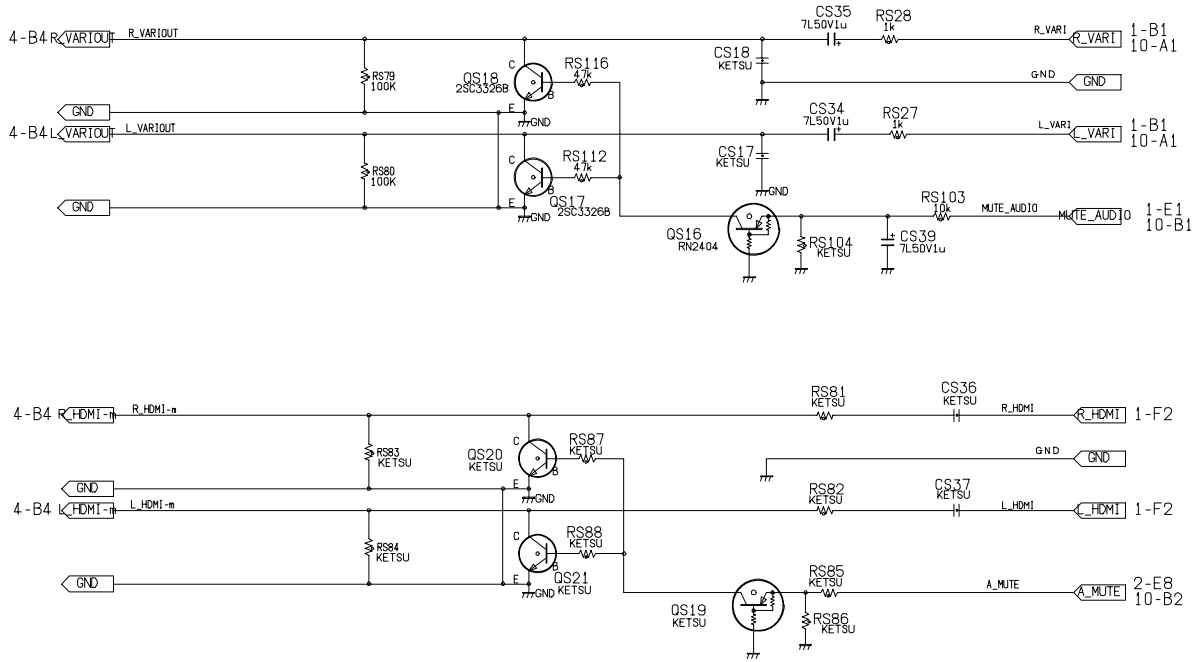

LOWB1
LOWB2
TUNER-APRO
TUNER & APRO
IR-PASS
POWER
(PD0750-1)
LED
(PD0750-3)
KEY
(PD0750-2)
G-HYPER
A-OUT
HDMI
TO DVI
TO HDMI
from PC Input
P612A KETSU
P611A
P102A
P104A
P103A
P604A
P601 KETSU
P613A
P615A
P617A
P618A
P610A
PX01A
PC10 CONNECTOR 40P FFC
to CONT
to P613A
to KEY BOARD
to PA01
SIGNAL-1
42HP83
(SHEET-1/7)(1/23)


QV01
CXA2069Q
(to A/V-IC)
(to FIX-OUT)
GEMSTAR EPG
SIGNAL-2
42HP83
(SHEET-2/7)(2/23)

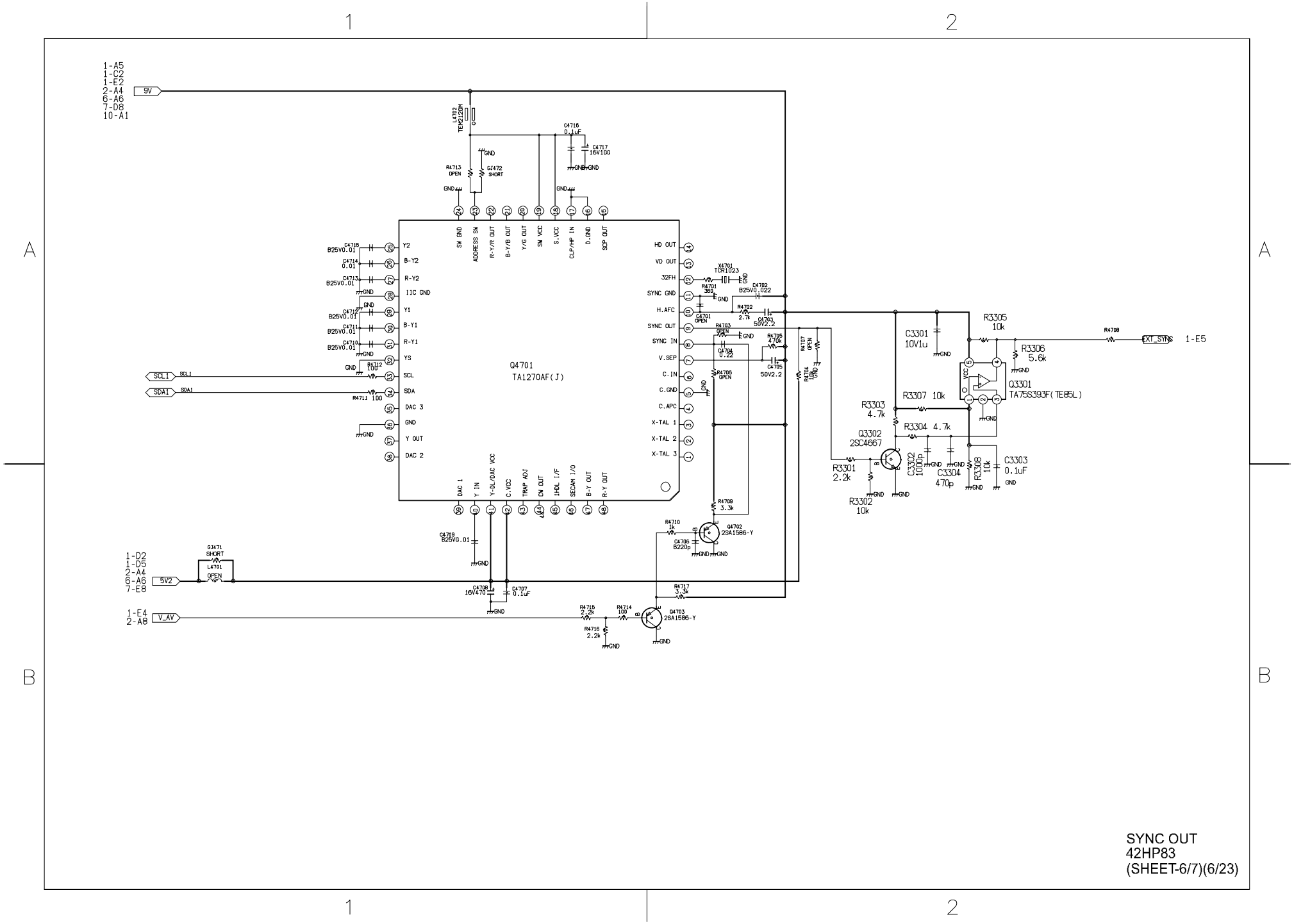


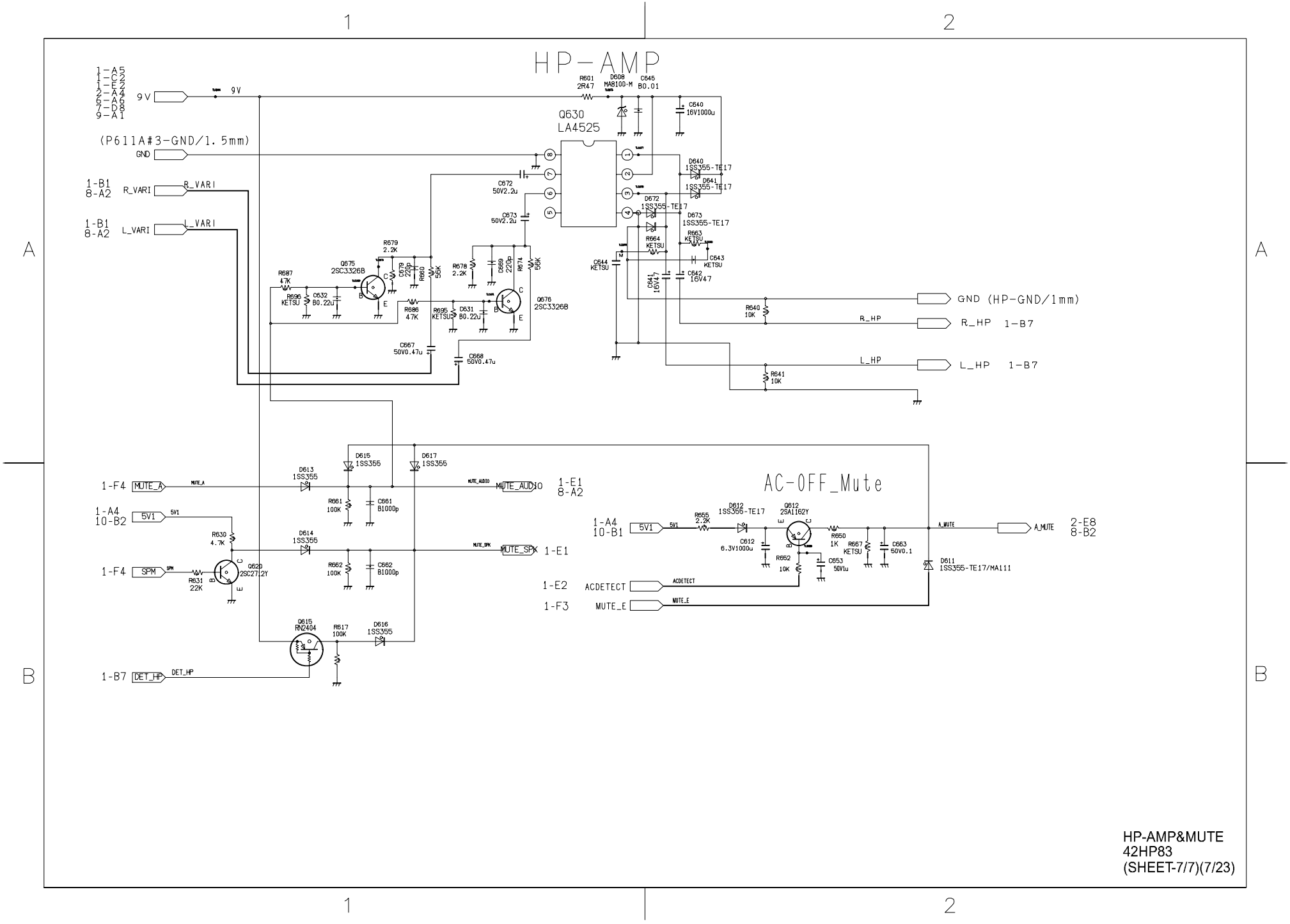
SIGNAL(AV-2)
42HP83
(SHEET-3/7)(3/23)


QY501
TA1340F
QY100
TC90A45F
SIGNAL(AV-3)
42HP83
(SHEET-4/7)(4/23)

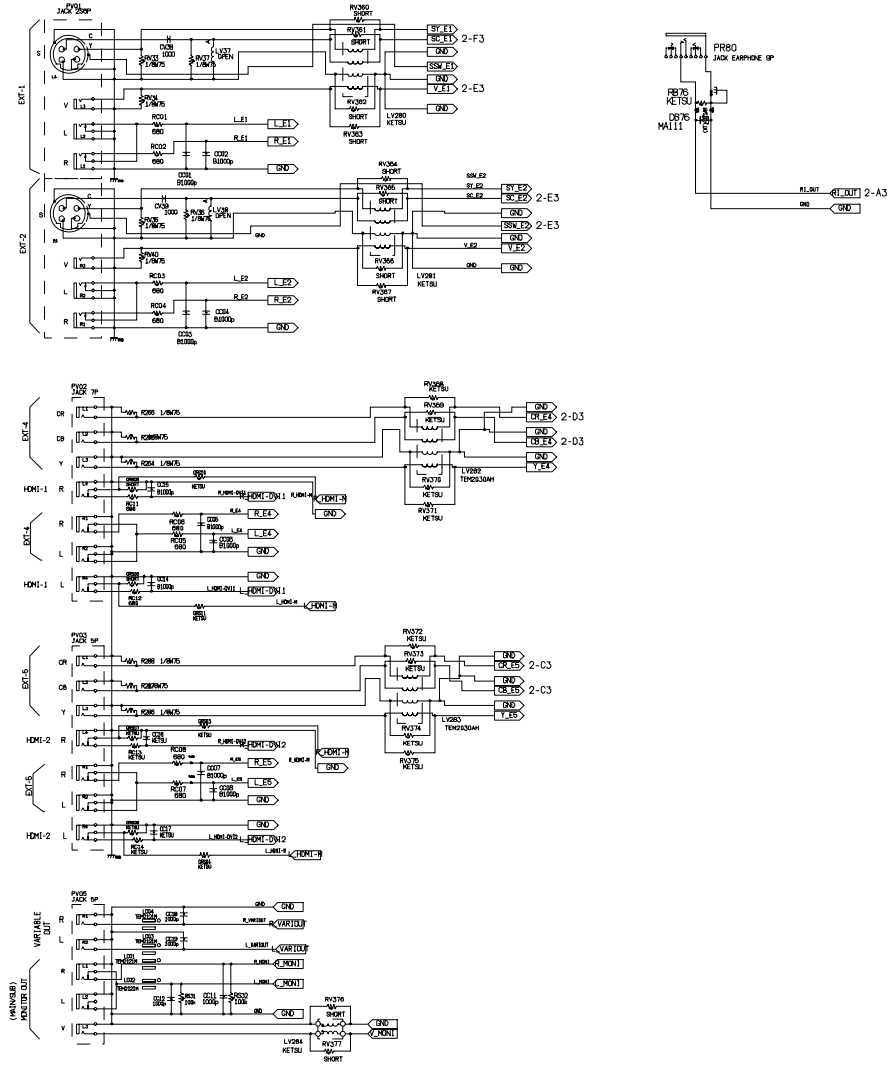


VARI-OUT, HDMI-MUTE
42HP83
(SHEET-5/7)(5/23)

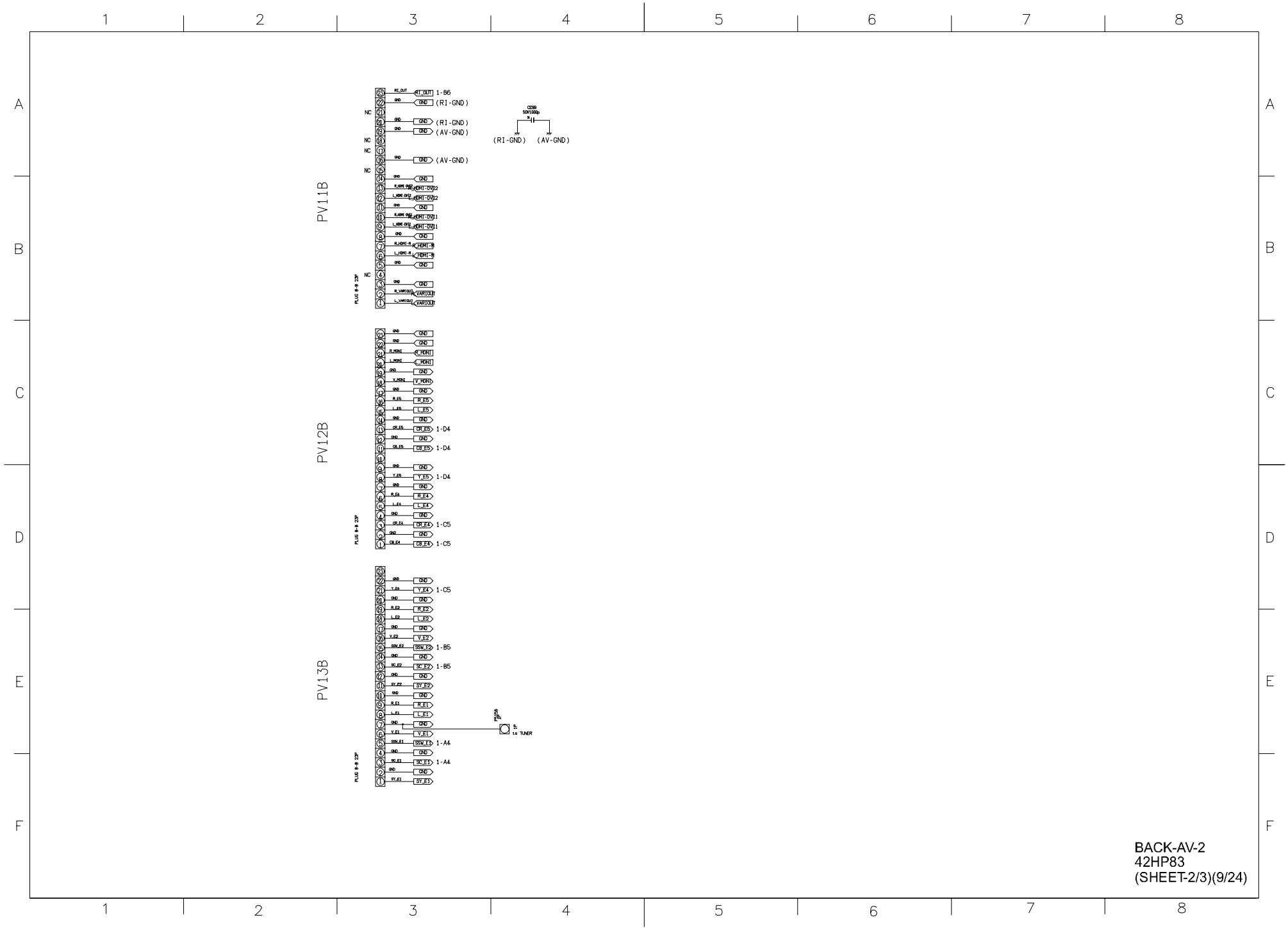

1-A5
1-C2
1-E2
2-A4
6-A6
7-D8
10-A1
9V
Q4701
TA1270AF(J)
SCL1
SDA1
5V2
V_AV
Q4702
2SA1586-Y
Q4703
2SA1586-Y
Q3301
TA75S393F(TE85L)
Q3302
2SC4667
EXT_SYNC
1-E5
1-D2
1-D5
2-A4
6-A6
7-E8
1-E4
2-A8
SYNC OUT
42HP83
(SHEET-6/7)(6/23)



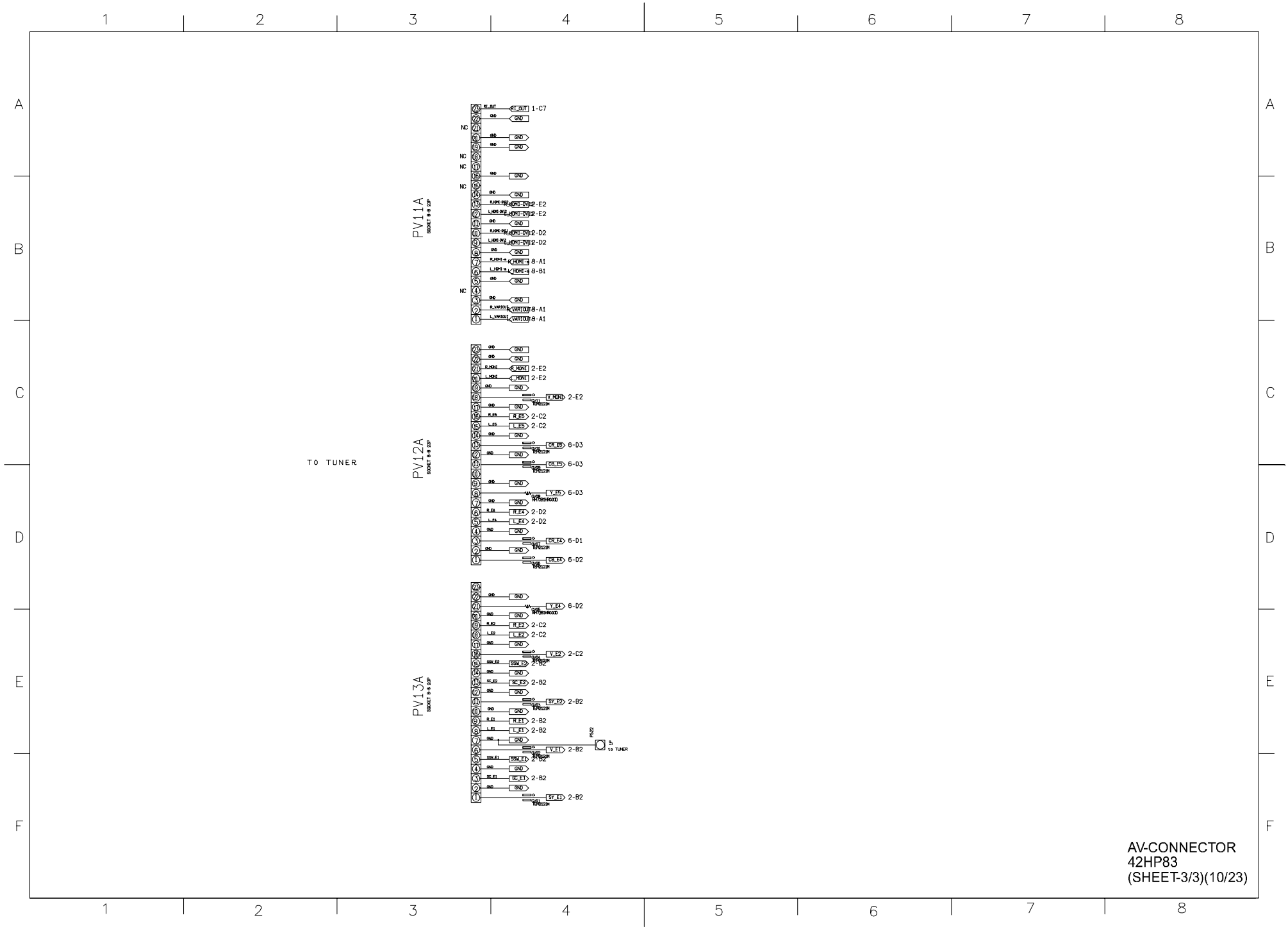
HP-AMP&MUTE
42HP83
(SHEET-7/7)(7/23)

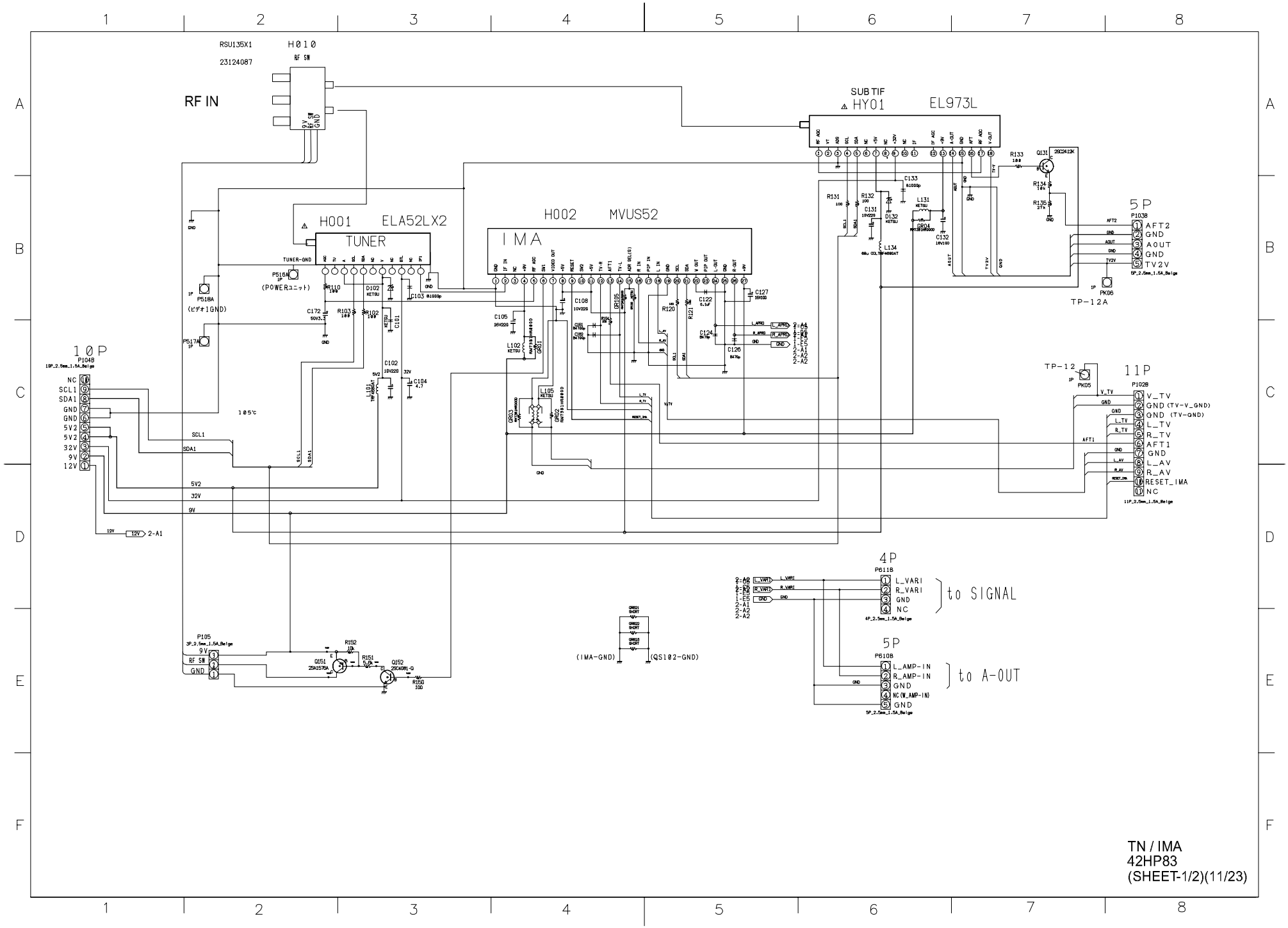


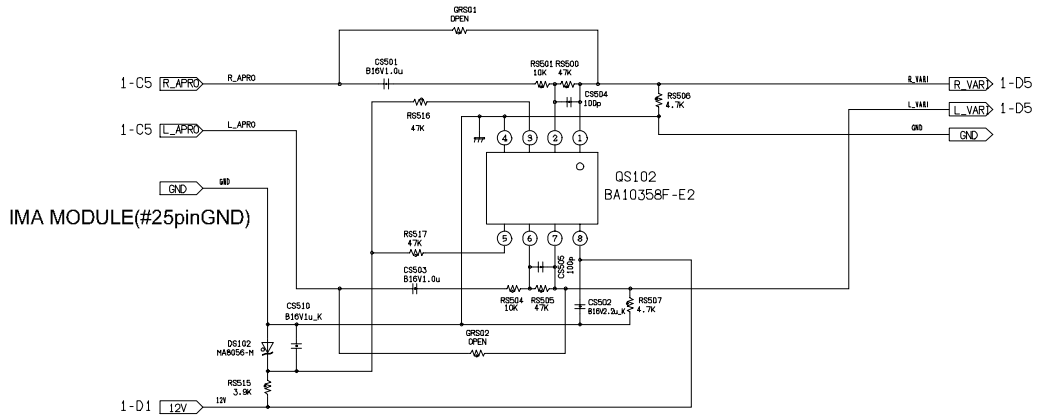
BACK-AV-1
42HP83
(SHEET-1/3)(8/23)



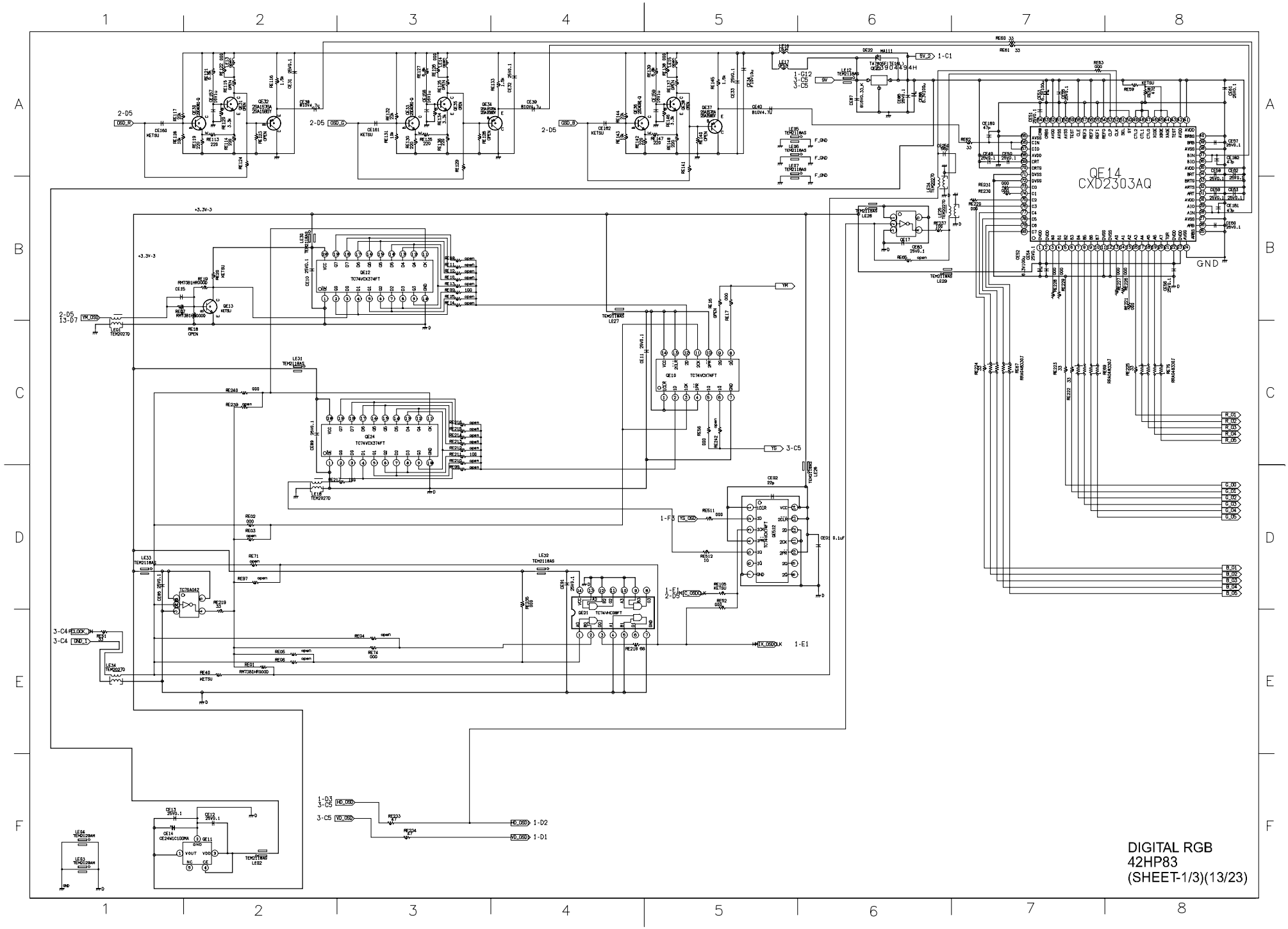
BACK-AV-2
42HP83
(SHEET-2/3)(9/24)

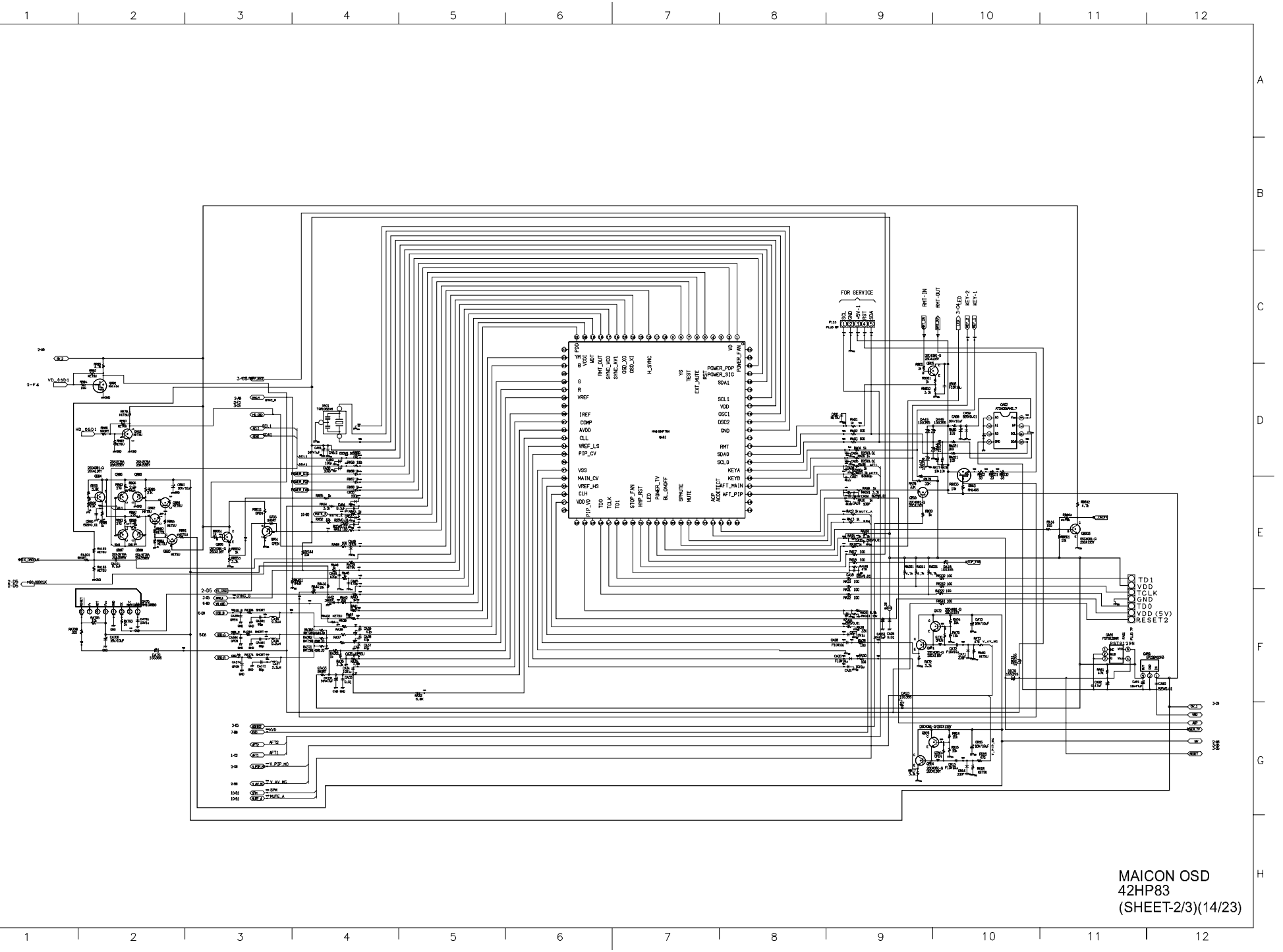

PV11A
SOCKET 8+8 23P
PV12A
SOCKET 8+8 23P
PV13A
SOCKET 8+8 23P
TO TUNER
AV-CONNECTOR
42HP83
(SHEET-3/3)(10/23)


RSU135X1
23124087
H010
RF SW
RF IN
SUB TIF
HY01
EL973L
H001
ELA52LX2
TUNER
H002
MVUS52
IMA
10P
P104B
NC
SCL1
SDA1
GND
GND
5V2
5V2
32V
9V
12V
105℃
SCL1
SDA1
5V2
32V
9V
12V
2-A1
P105
3P_2.5mm_1.5A_Beige
9V
RF SW
GND
R152
10k
Q151
2SA1576A
R151
5.6k
Q152
2SC4081-Q
R150
100
(IMA-GND)
(QS102-GND)
4P
P611B
L_VARI
R_VARI
GND
NC
to SIGNAL
5P
P610B
L_AMP-IN
R_AMP-IN
GND
NC(W_AMP-IN)
GND
to A-OUT
5P
P103B
AFT2
GND
AOUT
GND
TV2V
TP-12A
PK06
TP-12
PK05
11P
P102B
V_TV
GND (TV-V_GND)
GND (TV-GND)
L_TV
R_TV
AFT1
GND
L_AV
R_AV
RESET_IMA
NC
P516A
(POWERユニット)
P518A
(ビデオ1GND)
P517A
TUNER-GND
GND
5V
TP-GND
SCL
SDA
NC
VT
BL
IF1
IF IN
+5V
RF AGC
SW1
VIDEO OUT
+9V
RESET
SW2
+5V
TV-R
AFT1
TV-L
ADR SELECT
R IN
PIP IN
L IN
GND
SCL
SDA
V OUT
PIP OUT
L-OUT
GND
R-OUT
+9V
L_APRO
R_APRO
GND
2-A4
2-A3
2-A2
2-A1
1-F5
1-E5
1-D5
1-C5
2-A1
2-A2
2-A2
TN / IMA
42HP83
(SHEET-1/2)(11/23)

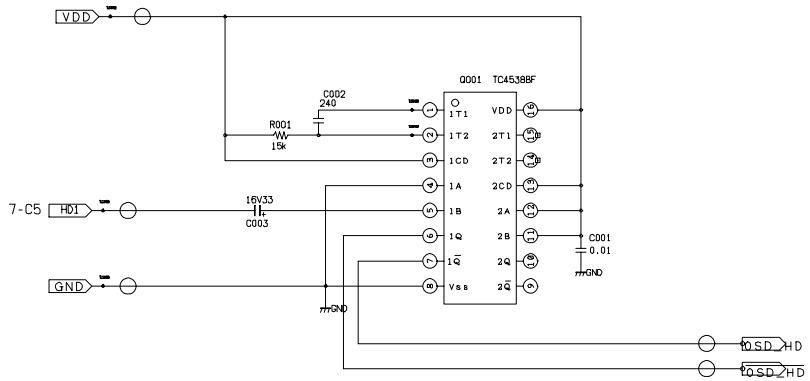


AUDIO GAIN CORRCTION
42HP83
(SHEET-2/2)(12/23)


QE14
CXD2303AQ
GND
DIGITAL RGB
42HP83
(SHEET-1/3)(13/23)



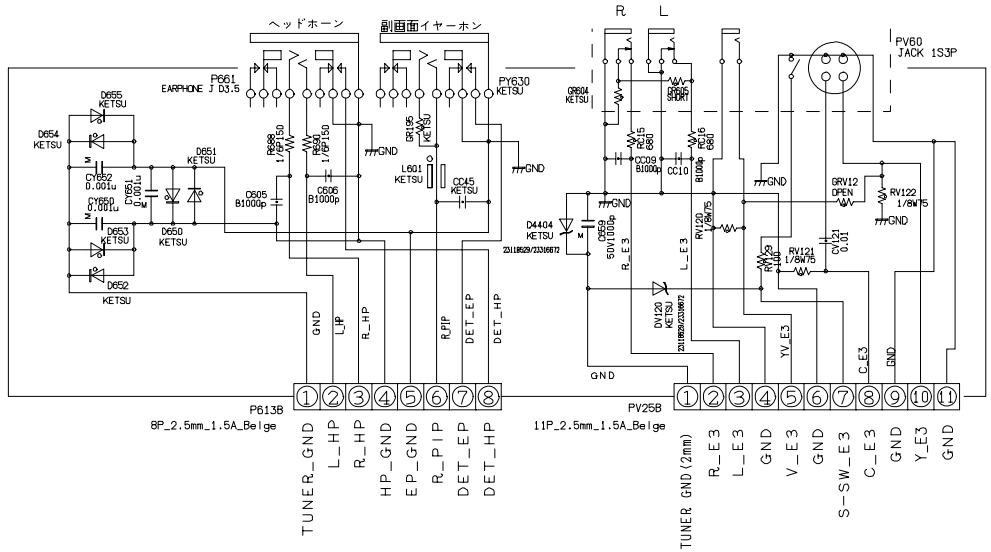
MAICON OSD
42HP83
(SHEET-2/3)(14/23)



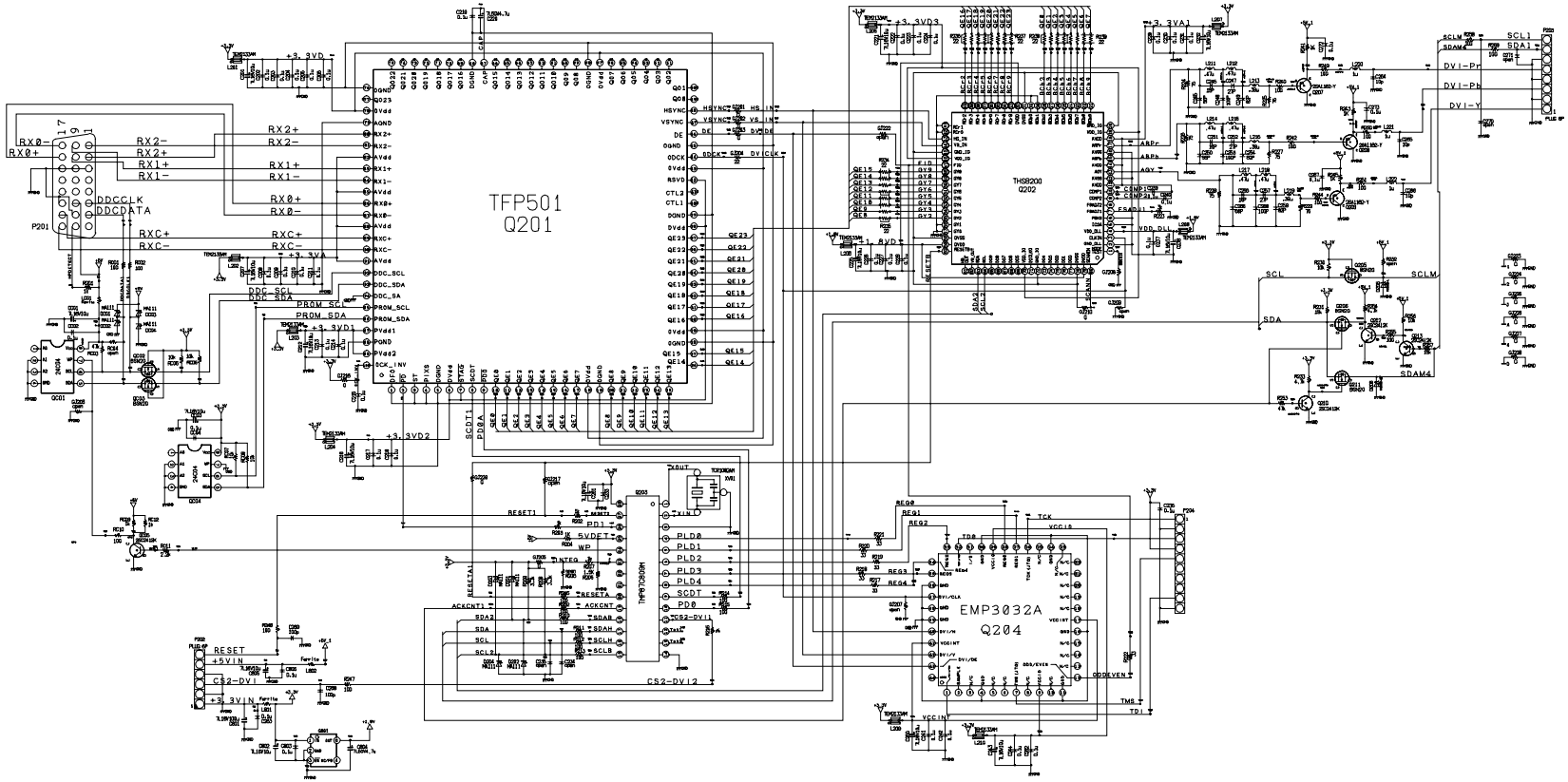
OSD HD
42HP83
(SHEET-3/3)(15/23)

U00 FRONT AV

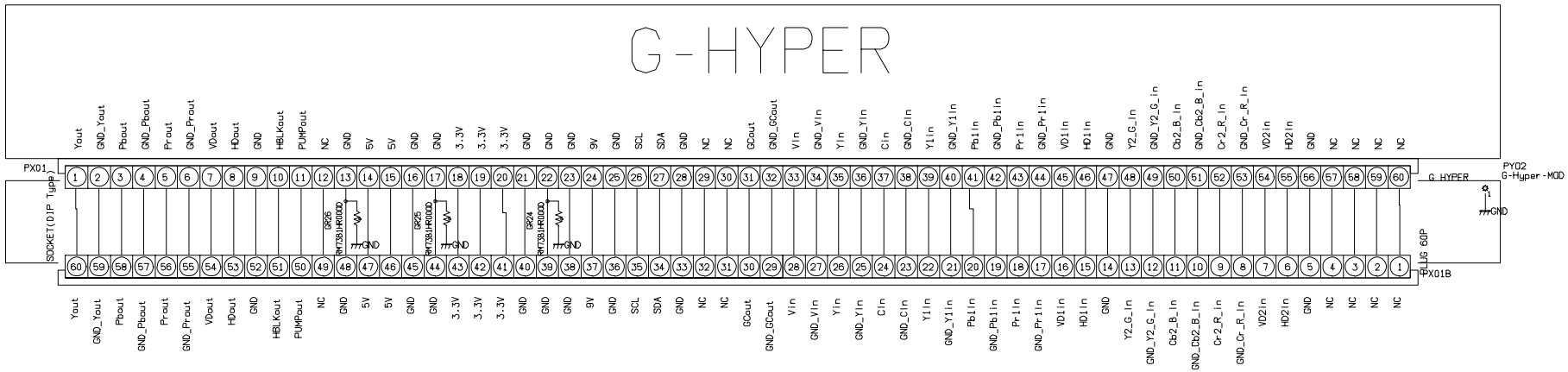
E3
R L V S



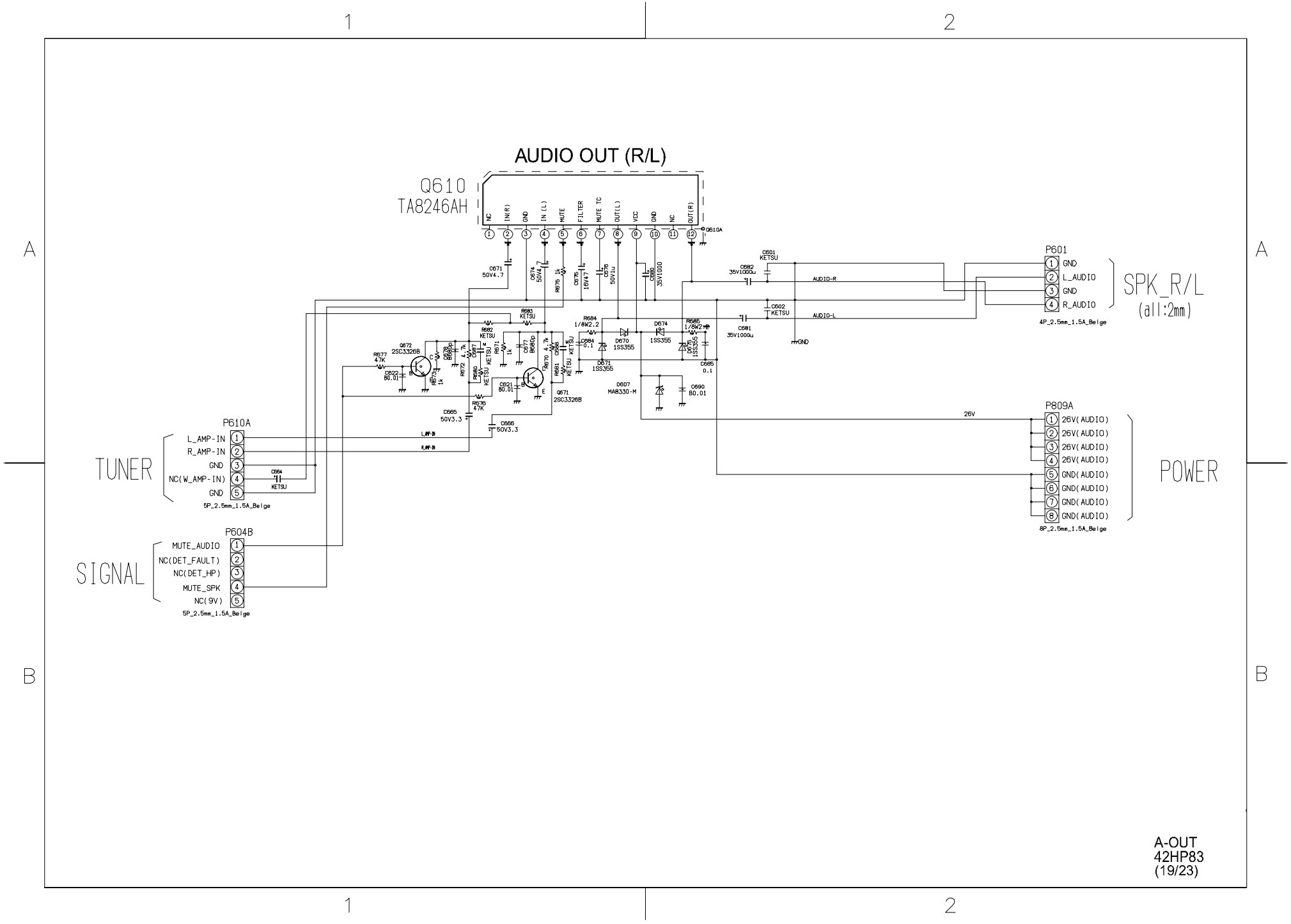
FRONT AV-1
42HP83
(16/23)

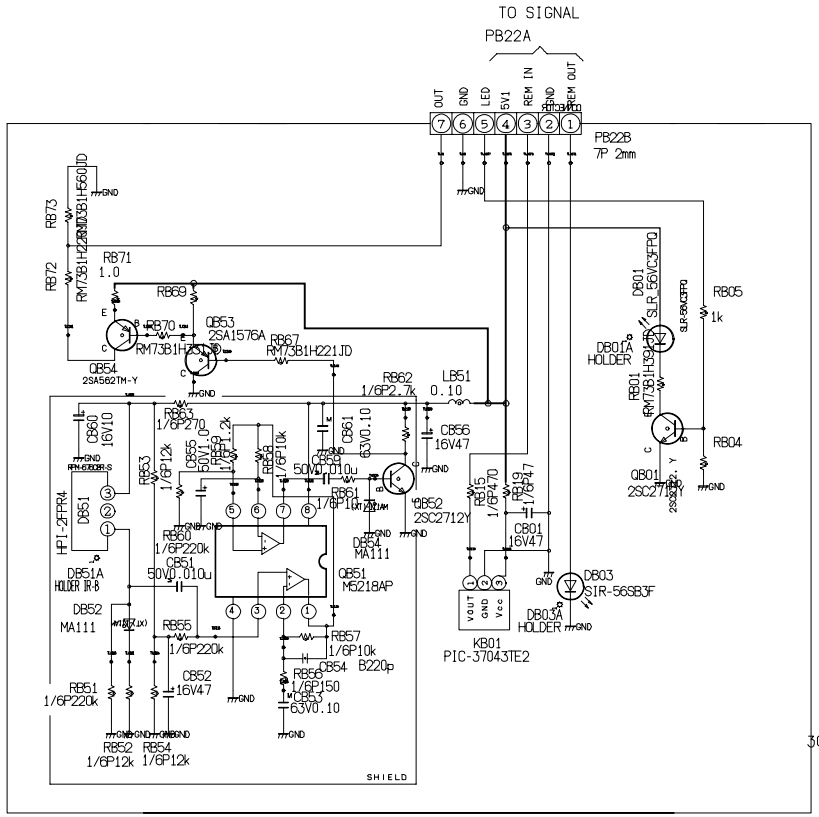


DVI MODULE
42HP83
(17/23)

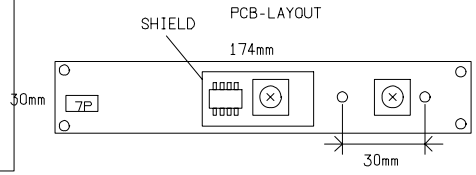


G-HYPER
42HP83
(18/23)

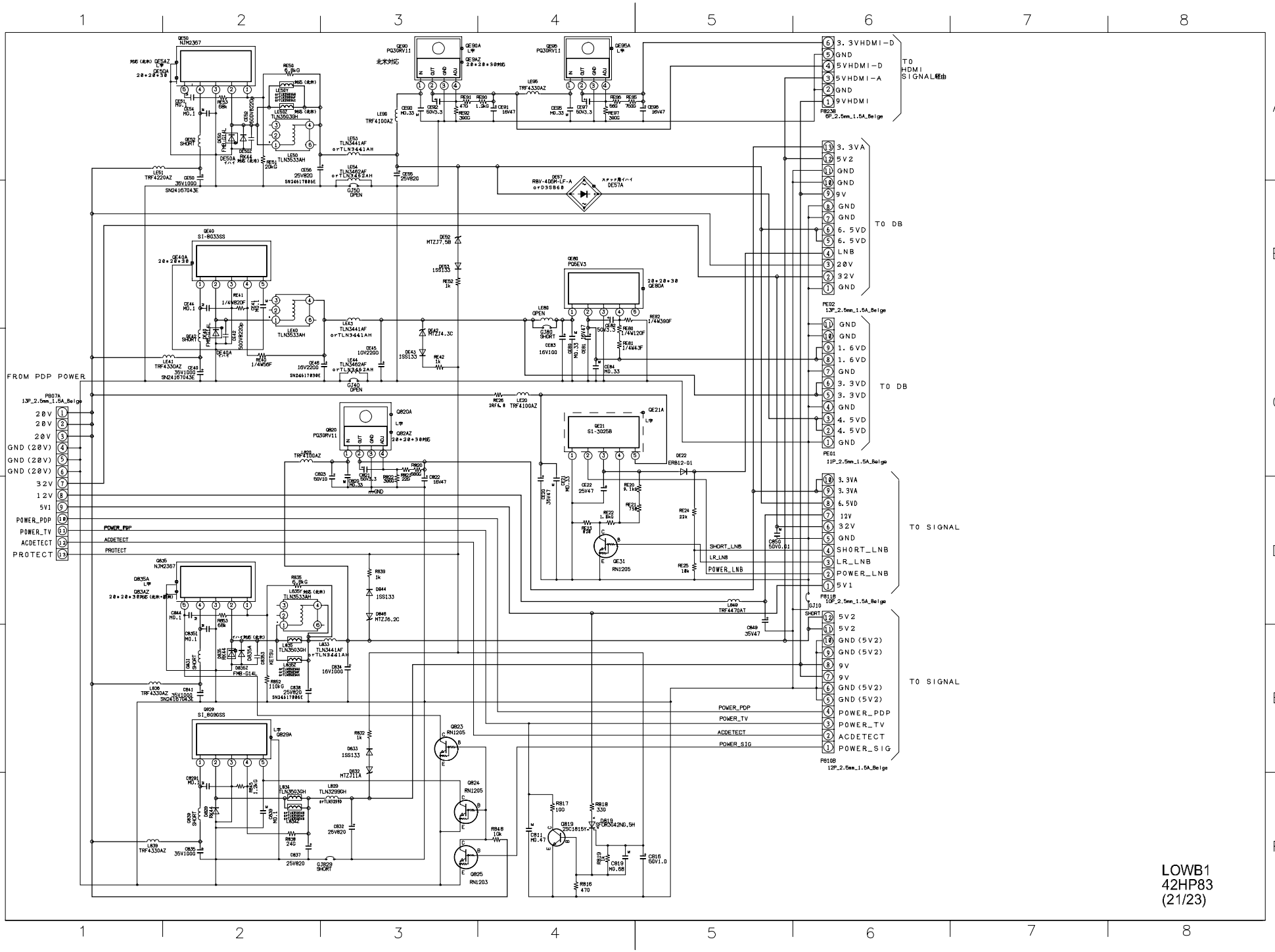

AUDIO OUT (R/L)
Q610
TA8246AH
NC
IN(R)
GND
IN (L)
MUTE
FILTER
MUTE TC
OUT(L)
VCC
GND
NC
OUT(R)
P601
GND
L_AUDIO
GND
R_AUDIO
SPK_R/L
(all:2mm)
4P_2.5mm_1.5A_Beige
AUDIO-R
AUDIO-L
P809A
26V(AUDIO)
26V(AUDIO)
26V(AUDIO)
26V(AUDIO)
GND(AUDIO)
GND(AUDIO)
GND(AUDIO)
GND(AUDIO)
8P_2.5mm_1.5A_Beige
POWER
26V
P610A
L_AMP-IN
R_AMP-IN
GND
NC(W_AMP-IN)
GND
5P_2.5mm_1.5A_Beige
TUNER
P604B
MUTE_AUDIO
NC(DET_FAULT)
NC(DET_HP)
MUTE_SPK
NC(9V)
5P_2.5mm_1.5A_Beige
SIGNAL
A-OUT
42HP83
(19/23)

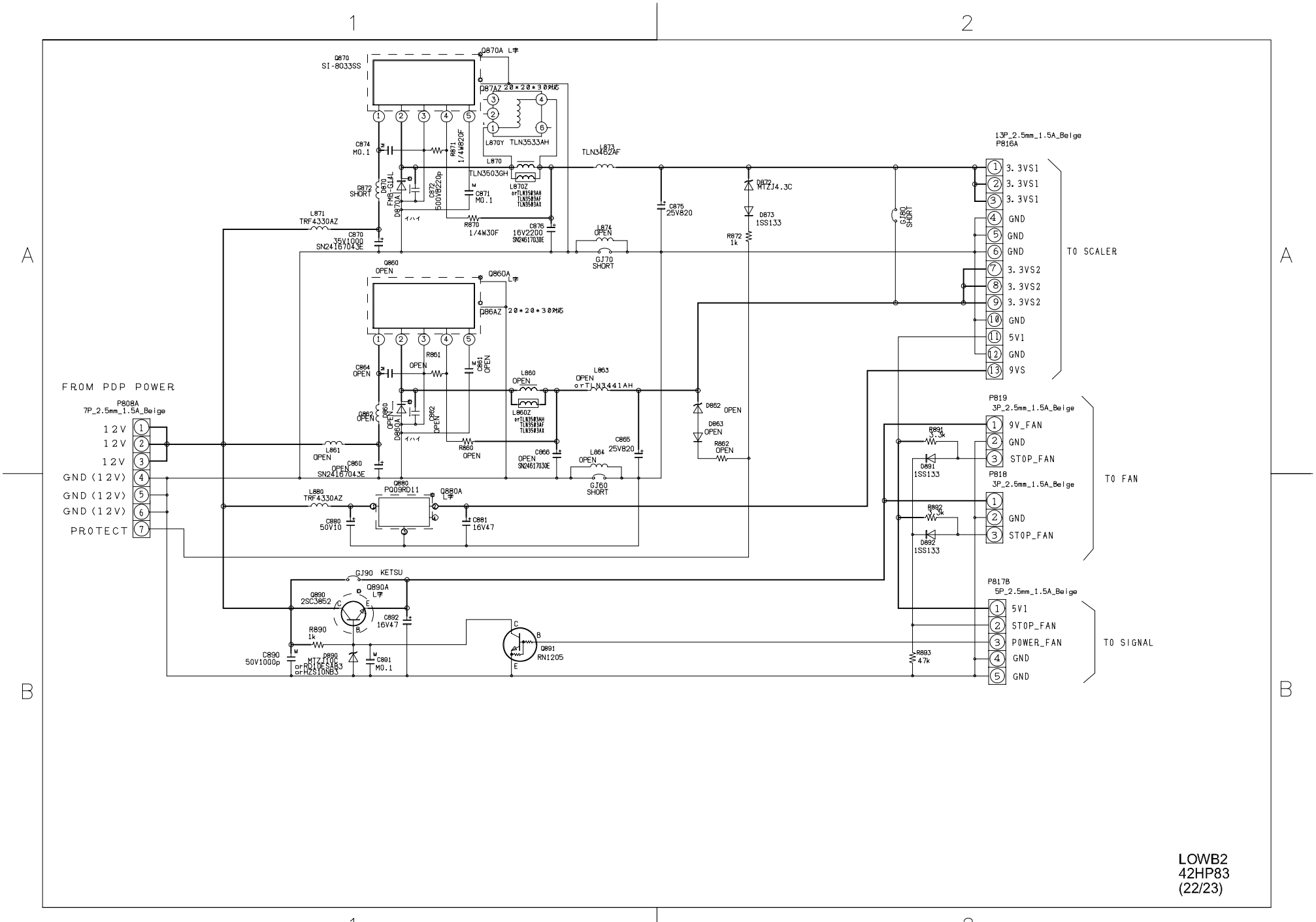


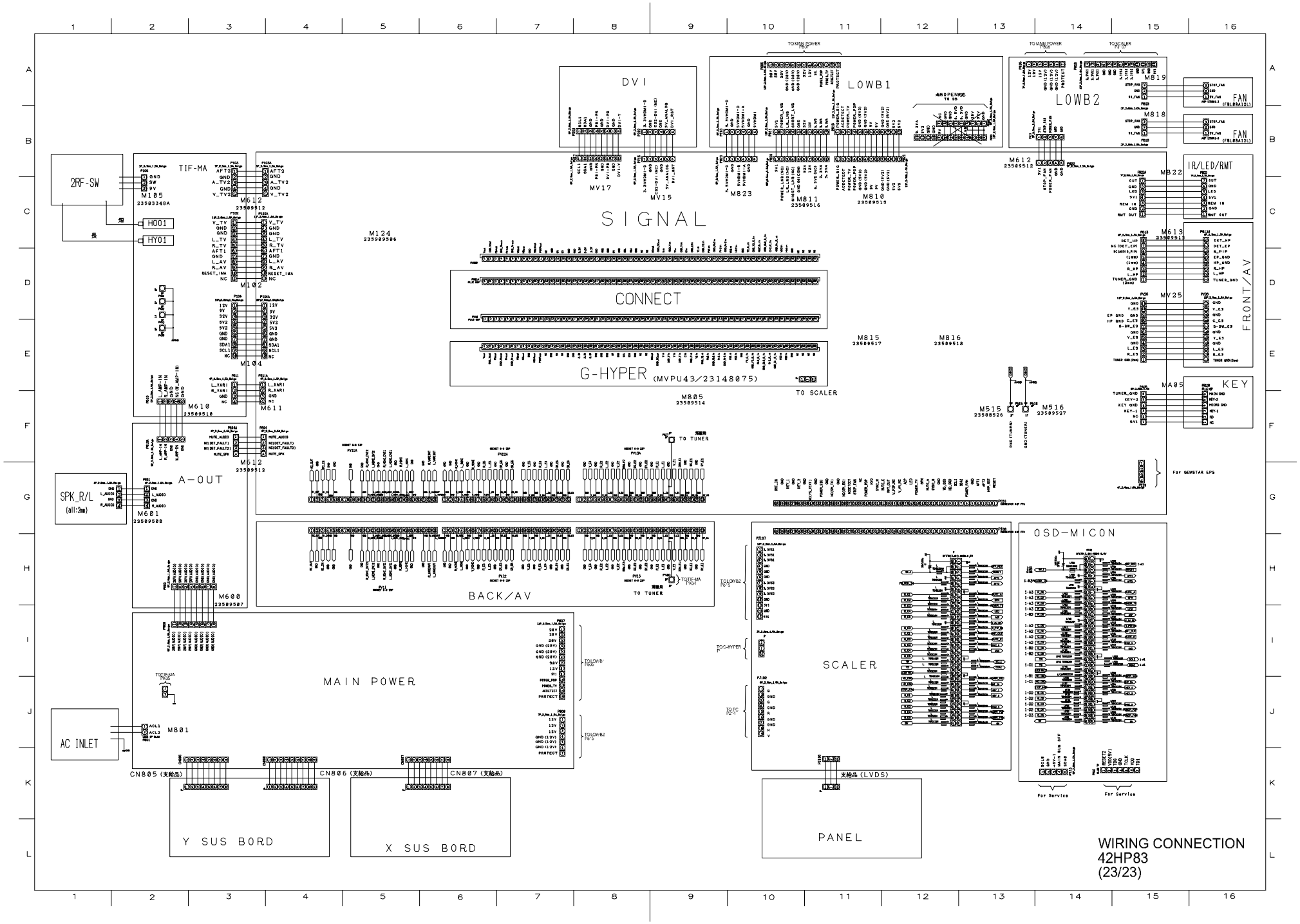
IR-PASS/RMT/LED



IR-PASSTHROUGH
42HP83
(20/23)


FROM PDP POWER
P807A
13P_2.5mm_1.5A_Beige
20V
20V
20V
GND (20V)
GND (20V)
GND (20V)
32V
12V
5V1
POWER_PDP
POWER_TV
ACDETECT
PROTECT
POWER_PDP
ACDETECT
PROTECT
TO HDMI SIGNAL基由
3. 3VHDMI-D
GND
5VHDMI-D
5VHDMI-A
GND
9VHDMI
PB02B
6P_2.5mm_1.5A_Beige
TO DB
3. 3VA
5V2
GND
GND
9V
GND
GND
6. 5VD
6. 5VD
LNB
20V
32V
GND
PE02
13P_2.5mm_1.5A_Beige
TO DB
GND
GND
1. 6VD
1. 6VD
GND
3. 3VD
3. 3VD
GND
4. 5VD
4. 5VD
GND
PE01
11P_2.5mm_1.5A_Beige
TO SIGNAL
3.3VA
3.3VA
6.5VD
12V
32V
GND
SHORT_LNB
LR_LNB
POWER_LNB
5V1
P811B
10P_2.5mm_1.5A_Beige
TO SIGNAL
5V2
5V2
GND (5V2)
GND (5V2)
9V
9V
GND (5V2)
GND (5V2)
POWER_PDP
POWER_TV
ACDETECT
POWER_SIG
P810B
12P_2.5mm_1.5A_Beige
SHORT_LNB
LR_LNB
POWER_LNB
POWER_PDP
POWER_TV
ACDETECT
POWER_SIG
LOWB1
42HP83
(21/23)


FROM PDP POWER
P808A
7P_2.5mm_1.5A_Beige
12V
12V
12V
GND(12V)
GND(12V)
GND(12V)
PROTECT
Q870
SI-8033SS
Q870A
Q87AZ 20*20*30ﾀｲﾌﾟ
L870Y TLN3533AH
L870 TLN3503GH
L870Z
C874 M0.1
R871 1/4W820F
D870 FMB-G14L
D870A
C872 500V8220P
C871 M0.1
R870 1/4W30F
C876 16V2200 SN24617030E
L871 TRF4330AZ
C870 35V1000 SN24167043E
L873 TLN3462AF
L874 OPEN
GJ70 SHORT
C875 25V820
D872 MTZJ4.3C
D873 1SS133
R872 1k
GJ80 SHORT
Q860 OPEN
Q860A
Q86AZ 20*20*30ﾀｲﾌﾟ
R861 OPEN
C864 OPEN
C861 OPEN
L860 OPEN
L863 OPEN or TLN3441AH
D860 OPEN
D860A
C862 OPEN
L860Z
D862 OPEN
D863 OPEN
R862 OPEN
R860 OPEN
C866 OPEN SN24617030E
L864 OPEN
C865 25V820
GJ60 SHORT
L861 OPEN
C860 OPEN SN24167043E
Q880 PQ09RD11
Q880A
L880 TRF4330AZ
C880 50V10
C881 16V47
GJ90 KETSU
Q890A
Q890 2SC3852
C892 16V47
R890 1k
C890 50V1000p
D890 MTZ7.5ER or RD10ES-B3 or HZS10NB3
C891 M0.1
Q891 RN1205
R893 47k
13P_2.5mm_1.5A_Beige
P816A
3.3VS1
3.3VS1
3.3VS1
GND
GND
GND
3.3VS2
3.3VS2
3.3VS2
GND
5V1
GND
9VS
TO SCALER
P819
3P_2.5mm_1.5A_Beige
9V_FAN
GND
STOP_FAN
R891 3.3k
D891 1SS133
P818
3P_2.5mm_1.5A_Beige
GND
STOP_FAN
R892 3k
D892 1SS133
TO FAN
P817B
5P_2.5mm_1.5A_Beige
5V1
STOP_FAN
POWER_FAN
GND
GND
TO SIGNAL
LOWB2
42HP83
(22/23)



WIRING CONNECTION
42HP83
(23/23)